



**38th Annual Meeting of the
Society for Invertebrate Pathology
Anchorage, Alaska
August 7-11, 2005**

This year's annual meeting in Anchorage, Alaska was blessed with fantastic, record-breaking warm weather and gorgeous sunshine. A total of 316 people, 65 of whom were students, attended the conference; 29 different countries were represented. The organizing committee was co-chaired by Kelli Hoover and Diana Cox-Foster of Penn State University. Bryony Bonning of Iowa State University did a stellar job as program chair. Local arrangements, registration, the social program and conference organization were flawlessly planned and carried out by Dave Smith of the University of Alaska, Anchorage Conference and Catering Services and his team. The meeting logo and T-shirts were designed by Vince D'Amico, Lee Solter organized the 5-K run/walk, visa support was provided by Liwang Cui, and Jim Slavicek, Suzanne Thiem, Mary Barbercheck, Ruth Plymale, Mike Grove, Jim McNeil, and Lerry Lacey assisted with a variety of tasks before and/or during the meeting.

Scientific Program. On Monday, the scientific program began with the Founders' lecture entitled "Expanding Frontiers for Microsporidia: A Tribute to Professor Elizabeth U. Canning" presented by Jimmy Becnel of the USDA-ARS, Gainesville, Florida. We were very fortunate that Dr. Canning was able to attend the conference. The plenary session entitled "Invertebrate Pathogens: Evolution and Impact" featured four speakers. During the four days of scientific meetings, there were 226 talks, including symposia and plenary sessions, and 130 posters presented. There were five workshops including a student workshop, nine Division symposia, and four cross-division symposia. For the first time, we arranged to have oral presentations uploaded prior to the conference and 60% of the speakers took advantage of this service, greatly reducing the number of talks that had to be loaded on computers at the conference. The vast majority of meeting participants stayed in student housing at bargain prices, which also facilitated more interaction among participants.

Social Program. The meeting opened with the mixer on Sunday night at the Cuddy Center on campus with live jazz performed by local musicians. Tuesday was a long day for the 5K Fun

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Deadline for the next Newsletter is January 15, 2006

SIP Office

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Run participants, but the course around the lake was worth the early rising time. The excursion on Tuesday afternoon was enjoyed by 316 participants. We took a stunning drive along the Turnagain Arm of Cook Inlet to the Mt. Alyeska Resort for a sumptuous buffet lunch followed by a tram ride to the top of Mt. Alyeska. The views from the top of the mountain were fantastic despite smoky conditions due to forest fires in the interior of Alaska (from lightning strikes). From Alyeska, we went to the Alaska Wildlife Conservation Park where we observed moose, bison, black bears, a brown bear, bald eagles, elk, caribou, and deer in large outdoor enclosures. Tuesday evening, the BBQ was held at the Alaska Native Heritage Center, where we were treated to performances by Athabaskan musicians and dancers, a wonderful buffet dinner with smoked salmon and Alaskan microbrews,



**Dr. James (Jimmy) Becnel, 2005 Founders' Lecturer
& Dr. Elizabeth (Liz) Canning, 2005 Founders'
Honoree**

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 January 15, 2006.

Disclaimer: The information contained herein, including any expression of opinion, and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon, does so entirely at his/her risk.

and dancing to a great DJ. The 5K fun run/walk awards, consisting of native Alaskan artwork and/or Alaskan themes, were presented at the BBQ. Attendance at the BBQ was approximately 385. The meeting closed Thursday evening with the banquet held at the Captain Cook Hotel in downtown Anchorage. After seafood appetizers and drinks, we were treated to a fresh halibut dinner. After dinner, dancing to live music continued until the last bus left to return to campus. A good time was had by all!

Sponsorship. The Alaska Convention and Visitors Bureau provided maps, restaurant guides, tour information, and several awards. We are deeply grateful for their generosity and assistance. We would also like to thank our corporate sponsors, including AgraQuest, Bayer Crop Science, Bayer BioScience NV, Becker Microbials, BioLogic, Certis USA, Dow AgroSciences, Monsanto, Pioneer, Syngenta, Taylor and Francis Ltd., and Valent BioSciences.

Thanks to all of you who attended the meeting, assisted in a variety of ways, and made this a rewarding experience for us all. It was also a great relief to the committee that we made a small profit from the meeting, a few thousand dollars. Whew! We look forward to seeing you in Wuhan in 2006.

Respectfully submitted,
Kelli Hoover
 Chair of the 2005 SIP Organizing Committee



Meeting organizers and local arrangements committee: Thanks to all!

2005 SIP STUDENT AWARDS

The 2005 Martignoni Travel Award was presented to **Chanitchote Detvisitsakun**, Division of Biology Molecular, Cellular, and Developmental Biology Program, Kansas State University.



Chanitchote Detvisitsakun
2005 Martignoni Student Travel Award

Chanitchote (Am) was awarded a fellowship that was established by the Thai government to sponsor first-rate academic training for qualified government employees. In this program, candidates are provided with the opportunity to study and train abroad and then return to their home country to train young scientists. Am agreed to return to her country after completion of her doctoral degree to establish independent research and provide quality teaching, and has been guaranteed a position as a faculty member in the Department of Biotechnology, Thammasat University. Her responsibilities will involve conducting research and teaching both undergraduate and graduate students.

Am's current research focuses on characterizing a baculovirus gene, *vfgf*, which, from her fundamental findings and hypothesis, has potential to be a virulence factor. She is attempting to determine whether viruses strategically produce a protein that can lure uninfected host tissues to infected tissues, resulting in dissemination of virus. Since baculoviruses are also used as biological control agents in Thailand, she plans to continue her research in this field. She hopes that knowledge and techniques obtained during her graduate studies will contribute to her overall goal to make an impact in the agriculture of Thailand and worldwide.

Am's presentation at the SIP meeting was entitled: *Stimulation of cell motility by a viral fibroblast growth factor homolog: Proposal for a role in viral*

pathogenesis. Her coauthors were Marcelo F. Berretta, Christopher Lehiy, and A. Lorena Passarelli, Division of Biology, Molecular, Cellular, and Developmental Biology Program, Kansas State University.

Congratulations, Am!!



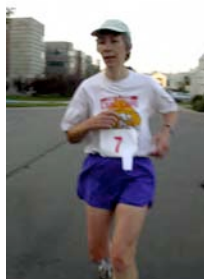
Watch for photos and bios of Division Travel Award winners and Paper/Poster Award winners in the February 2006 issue!!

5K Fun Run & Walk

The early morning hour and the threat of irate moose did not discourage SIP runners and walkers...they flew across the finish line in fine form and once again proved their mettle. Congratulations to this year's winners (and apologies that some of our runners ended up on the wrong list gender-wise - whoops!)

Women 45+

Lorena Passarelli	25:33
Karen Goettel	29:51
Ginger Carner	34:12



Bryony Bonning

Women 35-44

Bryony Bonning	25:37
Kerstin Jung	31:43
Sarah Lee	32:19

Women under 35

Marcelo Jacobs-Lorena	27:50
Aki Fujimoto	30:44
Erina Lizuka	30:44



Gerry Carner Carlos Lange

Men 45+

Gerald Carner	20:00
Jim Liebherr	23:47
Carlos Lange	25:58



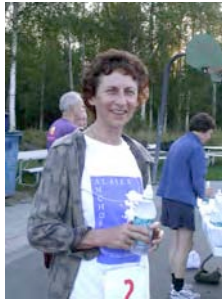
Todd Kabaluk Gernot Hoch

Men 35-44

Todd Kabaluk	19:56
Neil Crickmore	21:00
Gernot Hoch	22:09

Men under 35

Todd Ugine	20:49
Aaron Gassmann	22:26
Phil Joudrey	23:07



Wanda Akhurst

Walkers: Women

Wanda Akhurst	[less than 43:12]
Mary Barbercheck	43:12
Ann Hajek	43:20



Surendra Dara

Walkers: Men

James McNeil	30:50
Surendra Dara	39:49
Jean-Frederic Brunet	43:08
Tijs OpdeWeerd	59:31 (moose prize!)

**MINUTES OF THE GENERAL BUSINESS MEETING
AUGUST 11, 2005
ANCHORAGE, ALASKA, USA**

Meeting started at 10:35 am with about 80 in attendance

Minutes

The Minutes of the 2004 General Business Meeting, prepared by Ray Akhurst as former Secretary, were published in the November 2004 Newsletter. Peter Krell moved that the minutes be accepted as published, seconded by Rosalind James. Motion carried.

President's Report

The President informed the meeting that the executive board met near the end of the Helsinki SIP meeting and then later held a conference call meeting February 24, 2005.

Peg Rotstein was introduced as the Executive Secretary for SIP and she was thanked for her work for the Society and for attending the meeting.

The President publicly complimented the organization of the Helsinki meeting and thanked all those involved, particularly Jørgen Eilenberg and the entire Hokkanen family for both the formal aspects of the meeting and for organizing, and in some cases being part of, the social activities.

Most current committee chairpersons were asked to continue in their capacity. A new Membership Committee was struck with Ray Akhurst as the first Chair of the Committee. The mandate of this committee is to encourage current members to remain members and renew their memberships annually and to recruit new members so the Society will remain a vibrant one.

The President outlined the decisions made regarding increased financial support to the divisions and students for activities at the meeting;

- Support for the Divisions to bring in speakers was increased from \$1000 to \$1500.
- The financial support for individual non-member speakers was set at a maximum of \$750 per speaker. It is expected that invited speakers who are already members would not be eligible for a subsidy.
- Financial support for the Student Committee was raised from \$200 to \$500.

The President recognized the loss of Dr. Tom Angus, a founding member of the SIP and a former President (1976/78) of the Society. He reminded the group that Tom was also Founders' Lecturer (1985 for Honoree G. Bergold) and later (1997) as a Founder's Lecture Honoree (Lecturer, Kees van Frankenhuyzen). Tom will be remembered not only for his service to the Society and science but also for his wit and charisma.

Mabry Steinhaus, wife of the late Ed Steinhaus and often referred to as the mother of our Society, also passed away over the last year.

A moment of silence was held in their memory and for our respect for these highly visionary and influential members of our Society.

Treasurer's Report

The Treasurer, Suzanne Thiem, reported that for the year ending April 30, 2005, the Society revenues were \$58,419 with expenses of \$50,135, and with a net income for the year of \$8,284. Membership income was slightly higher than for 2004. Total assets for the society were \$185,553.38.

Mickey McGuire on behalf of the auditors reported that they found the Society's books were in order.

Suzanne Thiem moved that the Treasurer's report be accepted, seconded by Wendy Gelernter.

Nominations Committee

Bob Granados reported, as Chair of the Nominations Committee, that the process for seeking a slate of nominees for the positions of elective officers (Vice President, Treasurer, and Secretary) of the Society and two Council Trustee members was under way. The committee was composed of Ann Hajek, Harry Kaya, Jim Harper, Juerg Huber, and Bob Granados. The committee began the process of seeking nominees by contacting several members of the Society and posting a call for nominations in the SIP newsletter.

At the time of the Anchorage SIP meeting, the nominee selection process was still in progress and the committee expected to have a certified list of nominees ready by the October 1, 2005 deadline. Bob also reminded those in attendance that nominations can also come from the floor through a Petition Form with the support of a minimum of 10 SIP members. Those elected will enjoy having rewarding activities on behalf of the Society.

The President further reminded the members that any member of the Society can nominate individuals as per the Society's bylaws and that such suggestions be sent to either the Secretary or President in time for the interim meeting of the Council in December and for inclusion on the ballot.

Student Affairs Committee

On behalf of the Student Affairs Committee, Christina Campbell reported from the floor that the Committee is doing well. She also encouraged students to join and participate in the committee. Over the past year and currently, they have been active trying to recruit students. With the increase in funds approved by Council to \$500

for this committee, they will be able to be more involved in planning student activities for 2006. This committee will also be acting in concert with the Membership Committee to recruit new members.

Founders' Lecture Committee

Dudley Pinnock, on behalf of the Founders' Lecture Committee, reported that there is an ongoing list of nominations for Founders' Lecturer and Honoree and that his committee welcomes suggestions for nominations. Although most Founders' Lecturers would be members of the Society, the committee could consider nomination of a non member on a case by case basis.

The President, following Dudley's presentation thanked Jim Harper for preparing Certificates to the Founders' Lecturer Jimmy Benel and to the Honoree Professor Elizabeth Canning.

Meeting Reports

Mark Goettel, Chair of the Meetings Committee updated those in attendance on the plans for future venues. The committee accepted a proposal from Jean Louis Schwartz on behalf of the Canada Biocontrol Network to host the 2007 meeting in Quebec City, Quebec, Canada. The last meeting held in Canada was in 1997 in Banff, Alberta. For 2008 the Meetings Committee is recommending a European venue, with a focus on the UK. The 2009 meeting is expected to be held in North America, perhaps in the southern part of the US. The 2010 meeting would be an international one. The Meetings Committee welcomes all suggestions and in particular any offer to host such future meetings.

Anchorage (2005)

Kelli Hoover, Chair of LOC 2005, reported that the meeting was going very smoothly, except for a delay in the Founders' Lecture due to a technical problem with the AV system. The overall attendance was higher than anticipated and bodes well for a profit from this meeting.

Helsinki (2004)

Heikki Hokkanen reported on the Helsinki Meeting in 2004. He was grateful that the University waived the room rental fee (a potential cost of \$14,000), which allowed the meeting to realize a net profit of about \$11,000. That the Hokkanen family did much of the organization and provided some of the entertainment themselves also helped to keep the

meeting costs down. There was a total attendance of 319 with 225 oral presentation and 120 poster abstracts, although some poster presentations were not displayed. The various social activities (excursion, walk/run, BBQ) were well attended and were enjoyed by all with 375 in attendance for the banquet.

Wuhan (2006)

Sun Ming the secretary for the SIP 2006 in Wuhan, on behalf of the Chair, Yu Ziniu and Vice Chair Zhihong (Rose) Hu, presented a slide show demonstrating the venue and the facilities available as well as a glimpse into the social activities planned by LOC 2006. The venue for the meeting is part of a larger hotel complex with a wide range of accommodations and prices to suite a wide range of budgets. The dates were set as Aug 27 to Sept 01, 2006. They indicated that if registrants arriving on the day of registration provide their flight numbers, they could be met at the airport. In response to an inquiry from the floor, noting that at that time of year Wuhan can be quite hot and humid, Sun Ming reported that the venue and accompanying hotel complex has air conditioning. They indicated that they expect many, particularly from Asia, intend to attend the meeting.

Quebec City (2007)

Jean Louis Schwartz, on behalf of LOC 2007, reported that the 2007 meeting would be held in Quebec City and noted that the last time an SIP meeting was held in Canada (Banff, Alberta, 1997) it was held in Western Canada so it was time to move east, to Canada's largely French speaking province. The meeting venue will be in nearby Université Laval, about 10 minutes from the walled part of old Quebec. The meeting would be held on the traditional Sunday to Thursday, and the LOC 2007 is planning a river cruise. The 5 K race is planned for the historic Plains of Abraham where, in 1759, both Brigadier General James Wolfe and Marquis Louis Joseph de Montcalm, the commanders of the English and French armies respectively in Canada were mortally wounded in battle.

Division Reports

Bacteria Division

The Chair of the Bacteria Division, Christine Nielsen-Leroux, reported that they offered 2 travel scholarships based on a review of 11 applications. The Division hosted one Division Symposium on "Toxin Receptor Interactions and Mode of Action" and helped organize two Cross Divisional Symposia, one on "Invertebrate Responses to Pathogens" and the other on "Molecular Interactions between Insect Vectors and Human

Pathogens". The Division elected new officers. Christine Nielson-Leroux replaced Juan Ferré as Chair, Neil Crickmore as Chair Elect, Huyun Woo Park as Secretary and Luke Masson as one Member at Large. They suggested some Symposia topics for 2006 including "Biological Control using Bacteria in Asia", "Resistance to Bt Toxins" and "Invertebrate Immunity" plus a Cross Divisional Symposium on "Bacteria Nematode Interactions".

Fungus Division

Jørgen Eilenberg, replacing Judith Pell as Chair, reported that the Fungus Division was healthy with a membership of 120 members. One new officer elected was Ming-Guang Feng as Member at Large. They suggested two Symposia topics for the Alaska meeting, one on "Emerging Genomics" and the other, a cross divisional symposium on "Transmission of Invertebrate Pathogens"

Microbial Control Division

Jeff Lord, former Chair of the Division, reported on behalf of Michael Brownbridge the current Chair. This Division boasts a membership of 171 and a balance of \$3,000. This year they provided 3 student awards. They sponsored one symposium on "Use of Pathogens Against Incursion Pests" and updated their Web Site. Their 1992 set of slides on invertebrate pathology has been copied to a CD and is now available on the Web to SIP members only. Richard Meadows was elected as Member at Large.

Microsporidia

Gernot Hoch the Chair of the Microsporidia Division, reported on behalf of the Division. This Division has a membership of 47 and a balance in excess of \$2,000. The Division provided two student awards for the 2005 Meeting. They have also updated their web site. Susan Bjørnson was elected as Member-at-Large.

Nematode Division

Parwinder Grewal, Chair of the Division, which now has a membership of 51 and a balance of \$2,774 before the 2005 meeting, reported on behalf of the Division. Members of this Division were instrumental in securing a Genome Sequencing Grant and three bacterial genomes have since been sequenced or are close to being sequenced. The Division has a student representative, and Jim Campbell was elected as Member at Large. The Division provided one travel award. They sponsored two symposia, one on "Genomics of

Entomopathogenic Nematodes and Symbiotic Bacteria” and the other on “Ecology of Entomopathogenic Nematodes”.

One topic was proposed for the 2006 meeting, “Emerging Pest Targets”. Parwinder also suggested that the abstracts for the student winners be posted to the Newsletter.

Virus Division

Jim Maruniak, as current Chair of the Virus Division commented on the increase in number of members in the Division. He also noted that many of its members are involved in the SIP in executive positions and in the LOC 2006. The Virus Division presented 2 travel awards based on submission of 12 applications. The Virus Division hosted two Symposia, one on “Diseases of Marine Invertebrates” and one on “Virus-Host Interactions”, a well-attended Workshop on “Microarray Technology, Genomics and Proteomics” and co sponsored a cross divisional symposium on “Field Performance of Entomopathogens”

Membership Committee

Ray Akhurst as the Chair of this Committee reported that over the last years, the number of SIP members dropped from a high in excess of a recorded 800 to a current level of 472. However the number 800 was taken from the FASEB files which kept all names irrespective of lapsed memberships. Over the last year SIP gained 87 new members, plus 3 at this meeting, although it lost 79 during the same period. The Committee recognized that the Society, through the secretariat, needed to be more proactive in tracking lapsed memberships and reminding those who did not renew their membership to do so. The Membership Committee made several recommendations to Council to increase membership. These included preparing a flyer to advertise the SIP including testimonials and the value of membership; using the Journal of Invertebrate Pathology to highlight the Society; active recruiting by inviting authors from the Journal of Invertebrate Pathology; providing PowerPoint Presentations of the symposia to demonstrate the scientific value and attractiveness of the Society’s meetings, the latter needing approval of the authors. One suggestion from the floor was to liaise with the United Kingdom British Society of Parasitology and Genetics.

Concluding Remarks

Just Vlak concluded the meeting by thanking all those who gave reports and provided comment from the floor. He also reemphasized the need to attract younger, entry-level members to keep the Society strong and provide for longevity for the Society. Regarding the 2006 meeting,

he urged the Division Chairs to coordinate with the Organizing Committee, particularly the Programme Committee with respect to symposia.

Just Vlak commented that with the drain on various awards like the Martignoni and Lomer Awards that the principle was being depleted. He suggested that the principle be maintained and the values of the awards be adjusted accordingly.

John Vandenberg from the floor reiterated the importance of Student Awards. He also suggested that one way to reduce costs to the Society is to invite non-member speakers who are geographically closer to the SIP venues.

Wendy Gelernter, Vice President, concluded by expressing our thanks to the Corporate Sponsors.

Meeting Concluded at 12:26

2005 DIVISION MINUTES

Bacteria Division

Wednesday, August 10, 2005, 18:45

The meeting was attended by approximately 20 Division members.

1) Approval of 2004 business meeting report and matters arising:

The 2004 report was approved.

The secretary reported that the VIP nomenclature had been adopted and was published on the Toxin Nomenclature web site. The EU Cost Action on bacterial toxins for insect control has commenced and is being chaired by Dr Neil Crickmore with other Division members on the management committee. The first open meeting of the Action will be in Slovakia in September 15-17, where the future of toxin research in Europe will be discussed, as well as interactions between European and International R&D communities (see www.cost832.com).

Symposia organized, or co-organized by the Division in 2005 were:

Invertebrate responses to pathogens (Cross-Division) - Christina Nielsen-LeRoux

Toxin-receptor interactions and mode of action – Mario Soberon and Jeroen Van Rie

The symposium proposed by David Ellar and Colin Berry on the exchange of genetic material between plasmids and chromosomes did not take place because several identified speakers could not attend.

2) Chairman's report, including report on SIP Council meeting:

Travel awards: The chairman reported that the Division had contributed \$350 towards a visiting speaker for the "Molecular interactions between insect vectors and human pathogens" cross-divisional symposium and \$500 towards a visiting speaker for the "Invertebrate responses to pathogens" cross-divisional symposium. Eleven applications were received for the two Bacteria Division student travel awards; the committee agreed to give the two awards to Sarah Lee, University of Warwick, UK), and Ruisheng An, OARDC, University of Ohio, USA, due to the quality and originality of their work.

It was reported that the Newsletter editors would like highlights of activities by Division members for inclusion in the Newsletter. Peg Rotstein had also requested the name of a Division member to act as a website contact, Neil Crickmore agreed to be this contact.

For 2006 the Society will provide \$1500 as a contribution to symposium speakers and \$750 for travel awards. The Division agreed to provide two student travel awards for 2006 each with a value of \$500. The Division also agreed to provide \$500 to the forthcoming Pacific Rim *Bt* meeting to help fund student participation.

3) Financial report:

The treasurer reported that at the end of April 2005 the Division had 98 members, 49 of these had paid the voluntary \$8 to go towards student awards, etc. This represents an increase in both membership (86 members in 2004) and voluntary payments (only 26 members paid the voluntary contribution in 2004) over last year. The mail sent round by the Chair may well have helped these figures.

Membership income May 2004-April 2005:	\$ 632
Income from the Society:	\$2000
Expenditure on speakers & student awards:	\$2500
Net income May 2004-April 2005:	\$ 132
Balance April 30,2005:	\$997.30

4) Election of officers

To facilitate identifying new officers, Jim Maruniak (Virus Division) has agreed to prepare short job descriptions.

Chair Elect – Neil Crickmore was elected unopposed.

Secretary / Treasurer – Hyun-Woo Park was elected unopposed from the floor.

Member at Large – Luke Masson was elected unopposed from the floor

New Bacteria Division officers:

Chair - Christina Nielsen-LeRoux (2005-2007)
Institut-Pasteur, Paris, & INRA, Versailles,
France, Email: christina.nielsen@jouy.inra.fr

Chair Elect: Neil Crickmore (2005-2007)
University of Sussex, Brighton, UK,
Email: N.Crickmore@sussex.ac.uk

Secretary / Treasurer: Hyun-Woo Park (2005-2007), Florida A&M University, Panama City Florida, U.S.A. Email:
hyun.woo.park@famuedu

Member at Large: Luke Masson (2005-2007)
Biotechnology Research Institute, NRC,
Montreal, Canada, Email: Luke.Masson@Nrc.Ca

Member at Large: Margareth Wirth (2004-2006)
University of California Riverside, U.S.A:
Email: mcwirth@mail.ucr.edu

Past Chair: Juan Ferré (2005-2007)
University of Valencia, Spain
Email: ferrej@uv.es

5) Composition of sub-committees and representatives:

Symposia Committee: Christina Nielsen-LeRoux, Brian Federici and Jean-Louis Schwartz (Jean-Louis Schwartz replacing Trevor Jackson)

Web Site Committee: Neil Crickmore, Jean-Louis Schwartz and Colin Berry

Student Travel Award Committee: Raffi Aroian, Jeroen Van Rie and Juan-Luis Jurat-Fuentes (Juan-Luis Jurat-Fuentes replacing Ray Akhurst)

Toxin Nomenclature Committee: Don Dean, Neil Crickmore, Dan Zeigler, Jeroen Van Rie, Alejandra Bravo, Ernie Schnepf, Didier Lereclus and Jim Baum

SIP Student Award Committee representative: Margaret Wirth

SIP Fund Raising Committee representative: Jeroen Van Rie

SIP Membership Committee representative: Neil Crickmore

SIP Student Affairs Committee representative: to be announced

David Onstad, Chair of the Publications Committee, asked that the Bacteria Division choose two of its members to take part in the preparation of a revised "Glossary of Terms Used in Invertebrate Pathology". Jesko Oestergaard had volunteered (jesko.oestergaard@biotec.uni-kiel.de) other potential representatives would be sought.

6) Future symposia and workshops:

For 2006 the following Division symposia were suggested:

1. Bacterial Bio-control in Asia: natural and recombinant strains. Ray Akhurst to organize.
2. *Bt* resistance revisited. Juan Ferré to organize (possibly with Bill Moar.)
3. Genetic exchanges and gene expression in *B. thuringiensis*. David Ellar, Colin Berry and Didier Lereclus to organize.

Two cross-divisional symposia were also proposed:

1. Nematodes and Bacteria: symbiosis makes them stronger. Raffi Aroian to co-organize
2. News in insect immunity: from humoral to cellular responses. Christina Nielsen-LeRoux to co-organize

It was noted that Christina should liaise closely with the Wuhan organizing committee on the scientific program for the next SIP meeting

Other suggestions for future symposia were:

1. Transgenic plants. (Roger Frutos)
2. Non-insect control applications of *Bt* and its toxins
3. Interactions between symbiotic, commensal and pathogenic bacteria with the invertebrate host
4. Safety and ecology of entomopathogenic bacteria
5. Mosquito-toxin mode of action
6. Multitrophic interactions between plant, insect and pathogens
7. Interaction between pathogens – competition or collaboration?

7) Other Business

Jean-Louis Schwartz suggested that members not attending the annual meetings should be kept informed, and therefore given the opportunity to contribute to Division matters. It was agreed that reports from the Division, including the list of officers and planned symposia, should be promptly published on the website and comments invited.

Neil Crickmore (Secretary)

Juan Ferre (Past Chair) &

Christina Nielsen-LeRoux (Chair)

Fungi Division

August 8, 2005, Anchorage, Alaska



Chair: Jørgen Eilenberg

Secretary/Treasurer: Rosalind James

Members at Large: Sunday Ekesi and Stefan Jaronski

Chair-elect: Fernando Vega

Member status: 120 (slight increase from 113)

Account balance as of April 30, 2005: \$646.

Student travel awards: One award to attend the 2005 meeting was granted to Drauzio Rangel, USA.

The Division sponsored Philip Agnew (France) to participate in Anchorage. He presented the symposium paper: *The evolution of virulence and transmission of disease*

The Division was involved in the organization of several symposia and workshops at the Anchorage meeting:

Nemat O. Keyhani and Paresh Shah organized the symposium Emerging genomics of fungal entomopathogens.

Rosalind R. James organized the cross-divisional symposium Transmission of invertebrate pathogens. Siegfried Keller and Jørgen Eilenberg organized the workshop Systematics and Ecology of Entomophthorales.

Web-page: Paresh Shah has been working on a web-page for our Division based on inputs (including inspiration from the web-pages from other divisions). This will be discussed at the Division meeting, so hopefully we can decide on a web-page set up.

CD with images: At the meeting last year Charlotte Nielsen offered to initiate work to compile color images of fungal infections in insects. She will provide the status at the Division meeting.

Glossary: The Division will appoint members to contribute to this work.

Jørgen Eilenberg

**Microbial Control Division
August 10, 2005, Anchorage, Alaska, USA**

Chair Jeff Lord called the meeting to order at 7.45 pm. Officers present were Jeff Lord, Travis Glare, Vince D’Amico, and Melanie Filotas. A motion to dispense with the reading of the 2004 Minutes and accept them as written was made by Michael McGuire and seconded by Paresh Shah. The vote was unanimous in favor of the motion.

Report on council meeting: Jeff Lord reported on the SIP Council Meeting, held Sunday 7th August 2005. \$1500 will be available to support MCD symposia for the next meeting in China. It is possible that more funds could be made available if needed. Any money unspent goes back to the Council. \$750 will be available for student awards for that meeting.

Honorary members: Up to three honorary members are selected by ballot every 2 years. Currently Bob Granados is on the ballot, but if anyone has other names they think should be on the ballot, they should propose them.

The Martignoni “Glossary of Terms used in Insect Pathology” will be updated. Travis Glare and Stefan Jaronski have agreed to participate.

An ad hoc committee has been set up to handle the Lomer Award, which provides grants that support travel

to SIP meetings for insect pathologists working in the developing world. Don Roberts will represent MCD on the committee.

Upcoming meeting schedule is:

- 2006 China
- 2007 Quebec
- 2008 England?

Financial report: Jeff Lord presented the financial report. Membership of MCD is down, as it is for the whole of SIP. Student awards totaling \$1500 were spent this year, including \$750 from SIP. The question of how quickly to spend excess funds on travel grants and student awards was discussed.

Fund raising included selling t-shirts, originally produced for Helsinki, but mainly sold in Alaska, and the photo atlas.

The Treasury is stable with an increase of \$172.00 from last year, with a balance of \$5,942.15 as of April 30, 2005. The revenues from sales of the Microbial Control Division Slide CD have nearly ceased, and those of the 2004 t-shirt will cover costs with a small profit.

**Financial Report for Fiscal Year 2005
(May 1, 2004 – April 30, 2005)**

Income	
Meeting speakers transfer	\$2000.00
Membership dues 2004	\$342.00
Total Income	\$2342.00
Expenses	
Awards	\$1,700.00
MCD t-shirt shipping	\$154.82
Total expenses	\$1,854.82
Net Income	\$487.18

Comparative Statement of Funds Balance

4/30/2002	4/30/2003	4/30/2004	4/30/2005
\$7,959.27	\$8,221.69	\$5,770.	\$6,257.33

Membership: The membership was at 171, one less than 2004, but well down from a peak of 275 in 2000. It still represents nearly half of the SIP membership.

Michael McGuire proposed that some MCD funds be put into CDs to earn more interest. Previously, this had been placed at the discretion of the Divisions' officers and this was agreed upon again.

Student awards: Awards were given to Robert Graham, Emma Ormond and Ruth Plymale.

Discussion was held over how many awards should be given in the coming year. Last year, 40 applications were received by SIP for 9 awards. Mark Goettel proposed that the current award system handled by officers be continued and \$1500 be allocated, which was agreed to.

Symposia: One symposium was sponsored by the Division at Anchorage, organized by Maureen O'Callaghan and Travis Glare. One workshop was organized by Jorgen Eilenberg, Michael McGuire and Jeff Lord. Maureen reported that one invited speaker, Dave Levin, was supported by funds from MCD.

A call was made for symposia ideas and the names of organizers for the China meeting. Trevor Jackson proposed a plenary session on regional biocontrol in China, but Wendy Gelernter pointed out that plenary sessions are usually for topics outside what sessions usually cover. Discussion was held about topics that would be relevant to China (e.g. rice, transgenics, *Beauveria*). John Vandenberg suggested the incoming chair should integrate with and help the Chinese organizing committee on symposia topics. The need for a Chinese-based organizer was discussed and some names suggested. It was also pointed out that symposia should address Asia rather than only China. A suggestion was made to have a symposium on the LUBILOSIA project retrospective, led by Roy Bateman. The proposal due date was not known, but previously was in December. An email message requesting suggestions for symposia is needed before December and in the November SIP newsletter.

Workshop ideas were also requested. A new product symposium was suggested by Jeff Lord, Vince D'Amico will try and organize, along with Chinese colleagues.

Btk standards project: Travis Glare reported on the progress on the establishment of a new *Btk* standard, which is supported by the MCD. The project was delayed by a late offer from Valent Bioscience to supply their HD-1 strain as a standard, after Terry Couch (Becker Microbials) had already produced 25 kg of another strain. After much email discussion among project participants, Travis Glare made the decision to take the Valent

material as the new standard. This was a difficult decision in light of the generous offer from Terry Couch when no one else had agreed to provide material, and the meeting voted a special thank you to Terry for his efforts. The new material is now with Joel Siegel of USDA, who will act as curator and prepare shipments to the project participants for bioassay.

Website: A MCD website revision has been under consideration, led by Roy Bateman. It was to be based on the International Biopesticide Consortium for Development website, but it seems not to be easy to put into place. We are requested to use the format of the Bacteria and Virus divisions of SIP. Mike Brownbridge (in-coming chair) and Jeff Lord will follow up with Roy. Michael McGuire suggested that Peg Rotstein could just do it as she has done for other divisions.

Election of officers:

Member at Large: Richard Meadow

Secretary-treasurer: Zhengzhi Li

Chair-elect: Paresh Shah

Other business: Ann Hajek described a new publication on biological control of microbes/pathogens catalogue, published by the US Forest Service and available on their website, or hardcopy, free.

Lerry Lacey raised the issue of the slide set, which has just about stopped selling. He asked if it could be put on the website for all SIP members. Lerry Lacey proposed "to make the MCD slide set available on the SIP website for all members", seconded by Harry Kaya. The motion was passed by a show of hands.

John Vandenberg says he has a number of slide sets available that are cluttering up his office. If anyone would like one, to contact him, otherwise he will dispose of the slides.

Todd Uguine said that the student committee needs new members, if anyone wants to volunteer.

Motion to close the meeting made by Mark Goettel, seconded by Ann Hajek. The meeting was closed at 8.40 p.m.

Travis Glare

Secretary-Treasurer

Microsporidia Division
Monday August 8, 2005, 6:55 pm



The meeting was attended by 16 Division members, among them, officers Regina Kleespies (Vice Chair), Carlos Lange (Secretary/Treasurer), and Michael McGuire (Member-at-Large). The meeting was chaired by Gernot Hoch.

The Minutes of the 2004 Division meeting were accepted.

The Chair's report, including report on SIP Council meeting follows:

Current membership remains as it was in 2004, 46 members.

Division balance April 30, 2005 US\$ 2144
 For this SIP meeting, the Division spent \$1000 for invited symposia speakers Bryony Williams and Judith Smith at \$500 each. Elizabeth McClymont received a \$500 Division student travel award and Christina Campbell received \$250.

Gernot Hoch reported from the SIP Council meeting that the money available for the Division supported activities for the 2006 meeting will be increased to \$1500 for invited speakers and \$750 for Division student travel awards.

Susan Bjornson, Saint Mary's University, Halifax, Nova Scotia, was elected as new Member-at-Large to replace Douglas Streett. All other officers will serve for one more year. Elections will be held at the business meeting at the SIP 2006 meeting. The chair will appoint a nominating committee to select candidates.

The issue of updating the web page was discussed and James Becnel and Margaret Rotstein volunteered to address it.

James Becnel also volunteered as a representative of the Division for matters related to the Chris Lomer Fund.

Christina Campbell announced that she was selected to be the new Chair of the Student Affairs Committee and communicated some of the ideas she has for her term.

James Fuxa and Theodore Andreadis volunteered for the updating of the Glossary by Martignoni and Steinhaus. The members agreed that the Division Chair shall appoint J. Fuxa and T. Andreadis as representatives of the Microsporidia Division on the Glossary Committee.

A few ideas were mentioned regarding subjects for Symposium at the 2006 SIP meeting. Two initial proposals were "Genomes of Microsporidia" and "Proteomics of Microsporidia". Topics for the workshop were explored.

Lee Solter encouraged attendees to send material for inclusion in the Newsletter.

The meeting was adjourned at 7:40 pm.

Respectfully submitted,
Carlos Lange
Secretary/Treasurer

Nematode Division
August 10, 2005, Anchorage Alaska



Total attendance: Approximately 12
 Officers present: P. Grewal (Chair), D. Shapiro-Ilan (vice-Chair), Guy Belair (Member at large).
 Acting as secretary – Shapiro-Ilan.

Division Business Items:

1. Awards: The new SIP award funding for 2006 will provide \$1500 for speakers and \$750 for student travel. The Division suggested perhaps two student awards will be allotted at \$500 and \$250.

2. The group also reiterated its desire to keep EPN bacteria (*Photorhabdus* and *Xenorhabdus*) within the Nematode Division in regard to student awards. Discussion ensued regarding whether one EPN bacteria and one nematode research paper should be selected, but the members decided to give the awards to the two best papers regardless of topic.

3. Glossary project: David Shapiro-Ilan and Lerry Lacey will represent the Division concerning the SIP glossary project.

3. Student Affairs Committee: Jayne Christen was elected to serve as Nematode Division representative to the Student Committee.

4. Elections: Jim Campbell was elected new Member-at-Large filling the vacancy left by Guy Belair (term expired).

5. Symposia: Three symposia were proposed (one to be slated as cross-divisional).

a. EPN production and application technology (proposed organizers R. Ehlers & R. Han).

b. Emerging targets for EPNs (proposed organizers D. Shapiro-Ilan & [unfilled])

c. Toxins and antibiotics (proposed organizers R. French Constant or David Clarke). This symposium was suggested as a candidate as cross-divisional e.g., with Bacteria Division.

6. Newsletter: Discussion revolved around the idea of a "featured scientist" appearing in each issue. The response to this suggestion was mixed. A suggestion that was received quite positively was to run features on students, particularly those receiving SIP student competition awards, travel awards, or those finishing their degrees.

7. Special EPN Conferences: It was announced that the next International EPN Conference will be held in Kiel Germany from June 1 to 6, 2006. Additional discussion focused on whether the Nematode Division should propose having an official International Conference in conjunction with one of the upcoming SIP meetings. Such a conference would be similar to what is done with Bt. It was agreed that the meeting in Quebec City (2007)

would be a good target. The chair agreed to make a proposal to the SIP council.

8. Website & Job Descriptions: It was reported that the SIP council would like Division websites updated and organized in similar format. Also, Divisions need to provide job descriptions for each officer position so that future officers will have a template from which to work.

9. Other: Manuscripts from the Wooster EPN meeting have been reviewed and are in various stages of revision.

Virus Division

August 7, 2005, Anchorage Alaska



Thanks to the Society's Speaker Fund and Division dues, the Virus Division organized and sponsored one cross-division symposium "Invertebrate Responses to Pathogens" co-chaired by Jim Maruniak (Virus Division) and Christina Nielsen-LeRoux (Bacteria Division); two Division symposia: "Polydnaviruses and Ascoviruses" (4 speakers) and "Insect Expression Systems, Gene Therapy and Vaccine Development" (4 speakers); five contributed paper sessions (40 presentations); one workshop on "Microarray Technology, Genomics and Proteomics in Entomopathogen Research"; 35 virus posters and contributions to the Immunity session and Microbial Control session.

Membership

There are 120 dues paying members in 2005, an increase of 24 over 2004. There are 108 regular members (17 more) paying \$10 and 12 students (7 more than 2004) paying \$2.

Student Travel Awards

There were 10 applicants for the Virus Division student travel awards judged by three members of the Division including executive committee

members. The Virus Division awarded two travel awards of \$500 each to Jondavid de Jong from University of Guelph, Ontario and Elizabeth Kemp from University of Reading, Warwick. The Virus Division reviewed and voted for the student travel applications for the Martignoni Award (Stephen Wraight, Chair) and the Microbial Control (Jeff Lord, Chair) travel awards.

2006 and Future Symposia

A cross-divisional symposium on "Host/Pathogen Population Dynamics" is planned for the 2006 annual meeting in China. Two symposia approved by the Virus Division are "Diseases of Aquatic Invertebrates" organized by Just Vlak and "Field Performance of Insect Viruses" organized by Rose Hu.

Additional future titles on our "master list" of symposia topics include Virus/Host Interactions, Entomopoxviruses versus Vertebrate Poxviruses: Comparative Pathology and Genomics, Cell Culture: Serial Passage Effects and Virus Production, Emerging Diseases of Invertebrates, and Insect Genomics (cross-division symposium). Contact Jim Maruniak if you would like to participate in organizing a Virus Division Symposium.

It was decided that there would not be a Virus Division workshop at the 2006 SIP meeting.

Basil Arif suggested a visit of the Virology Institute in Wuhan for members of the Virus Division. More information will be sent at a later time about the details of the tour.

Web Page

The Virus Division web page was updated by Johannes Jehle, Monique Van Oers, and Peg Rotstein.

Financial Report

Revenue

Membership dues	2004	\$190
	2005	\$924
	(120=12@\$2, 108@\$10)	
SIP contributed Speaker Funds	\$1000	
SIP contributed Student Travel	\$1000	
Total Revenue	\$3114	

Expenses

Meeting Speakers	\$1500
Student Travel Award	\$1500
Total Expenses	\$3000

Virus Division Officers and Terms

Chair	James Maruniak	(2004-2006)
Vice-Chair/Chair Elect	Johannes Jehle	(2004-2006)
Secretary/Treasurer	Marlinda Lobo Sosa	(2004-2006)
Member-at-large	Robert Possee	(2003-2005)
Member-at-large	Linda King	(2004-2006)
Member-at-large	Madoka Nakai	(2005-2007)

Bergmann Ribeiro Morais from the University of Brasília has agreed to be on the Lomer Fund Committee. The Virus Division has nominated Jenny Cory and Doreen Winstanley to be on the SIP Glossary Committee.

Jondavid de Jong agreed to be the student representative for the Student Affairs Committee.

During the SIP meeting in China next year, we will have elections for Vice Chair/Chair-elect, Secretary/Treasurer and one Member-at-Large. Nominations should be sent to Jim Maruniak (jem@ifas.ufl.edu) prior to the SIP meeting. At least three different members of the Virus Division must nominate candidates before they are considered for election. Johannes Jehle will assume the Chair at the end of the Virus Division business meeting in China.

ANNUAL REPORTS

President's Report

The first year of the presidency went by quickly and mostly according to plan. At the end of the Helsinki Meeting (SIP2004) the Council informally met to discuss the issues raised at the Council meeting, the Business Meeting and during the rest of the conference. A duty list was drafted as a guideline for council activities throughout the year. It was decided to have a mid-year telephone conference, which occurred in February 2005. The Helsinki meeting was successfully completed and I have complimented the organizers for their dedication and service to the Society.

I have contacted most of the committee chairpersons and asked them to continue their duties and have appointed a new chair of the membership committee, Ray Akhurst. Membership

is a key issue for the future of the Society and with the help of the SIP secretariat we try to recoup members lost during the various transitions (electronic membership forms) and to attract new members through promotional activities.

In March 2005, I visited China and met with the Organizing Committee chaired by Prof Yu Zinju and co-chaired by Prof. Hu ZhiHong in Wuhan. The organizing committee was proud to have the meeting in China for the first time and is prepared to do what is necessary to have a successful meeting. I expressed gratitude on behalf of the Society for their willingness to take on this job. We discussed the structure of the meeting and I underscored the importance of having the Divisions involved in shaping the program and keeping contact with the Meetings Committee Chair, Mark Goettel. I visited the conference venue and viewed the accommodations. Suggestions were generated to increase the meeting facility in case the turnout exceeds their expectations. Their website was near completion and is now open for viewing (sip2006.hzau.edu.cn).

The discretionary funds of the President for 2005 were spent in consultation with the Organizing Committee of SIP2005 and allowed the invitation of various outside speakers of symposia. During the year I maintained close contact with the Organizing Committee of SIP2005. The organization went very smoothly and the turnout will meet the expectations.

Our relationship with Elsevier through the Journal of Invertebrate Pathology picked up speed by having our first special journal issue on a SIP symposium topic. I discussed the next steps with Elsevier and concluded that this venue will be further explored in the future.

Other than the above I dealt with the usual business representing the Society as your president.

Respectfully submitted
Just Vlak, President



Secretary's Report

The Secretary position on the SIP Executive Council was held by Ray Ackhurst from 2002 to 2004. Peter Krell assumed that position as of the SIP General Business Meeting at the SIP meeting in Helsinki.



2005 Council and Division Chairs

One of the first tasks of the Secretary was to organize an informal meeting of the new executive officers and Council during the Helsinki Meeting. That meeting took place August 5, 2004, 12:30-13:30. The second task was to help organize a teleconference held on Feb 24, 2005 starting at 11:00-13:00 ET. This was the first Teleconference organized by the SIP executive officers and Council.

Based on the August 5, 2004 meeting in Helsinki and the interim conference call on February 24, 2005, a set of Action Points was composed for discussion at the August 7 Council Meeting.

The secretary, in consultation with the executive officers, developed an agenda for the Council Meeting, 8:30-17:00, August 6, 2005, in Anchorage, and for the General Business Meeting, 12:30-14:30 Thursday, August 11, 2005. The secretary coordinated the collection and collation of the various committee and division reports.

The secretary would like to acknowledge the support, patience and encouragement of the rest of the executive officers and Council, and in particular the past secretary, Ray Akhurst. Without their advice and reminders, and prompt attention to requests for information or reports this would be a very difficult job.

Respectfully submitted
Peter J. Krell, Secretary

Treasurer's Report

The Society's financial statements for the fiscal year ending April 30, 2005 are shown in Exhibits A (assets sheet), B (revenue and expenses), C (board designated funds), and D (accompanying notes). At the end of the fiscal year our assets were held in a money market account and a six-month CD, which matures in August. The six-month CD that matured during the current fiscal period was reinvested in the current six-month CD. Total interest earned for the fiscal year was \$1,707.

Society revenues for the fiscal year were \$58,419 and expenses totaled \$50,135 (Exhibit B), for a net gain of \$8,284. Income from membership was \$16,280 compared to \$14,051 for fiscal year 2004. Contributions remained static. Net profits from the Helsinki meeting were \$11,161, which includes corporate donations. Expenses for the newsletter and supplies were down to \$1,472, compared to \$2,380 in 2004, a decline in expenses of a little over \$900 compared to last year. These savings were somewhat offset by increased expenses for postage and delivery, due primarily to shipping and customs to and from Helsinki. Expenses included \$6,000 meeting program support for Divisions (\$1000 each) and support for division student travel awards (\$1,000 each).

The activities of Board Designated Funds (Divisions, Endowment, and Martignoni Funds) are shown in Exhibit C.

Overall, the fiscal health of the Society is solid (Exhibit A). Our total assets are \$183,598, up slightly from \$179,889 last year. It should be noted that there is a change in the fund balance reported for 4/30/2004 on this year's report (Exhibit A) relative to what was reported in last year's report for the same period. This change is the correction of an accounting error that was carried over to our books when we took over management of the Society's funds from FASEB in 1999. The corrected figures accurately reflect the Society's assets. Funds have been invested in 6 month CDs because interest rates for CDs have remained low. CD interest rates have gradually increased from record lows two years ago. Longer-term investments in CDs are planned as the interest rates rise.

Respectfully submitted,
Suzanne M. Thiem, Treasurer

EXHIBIT A

	<u>4/30/04 Fund Balance</u>	<u>4/30/05 Fund Balance</u>
General and Administrative	\$134,726.44	\$141,250.27
Virology	\$3,029.00	\$3,143.00
Bacteria	\$865.30	\$997.30
Microsporidia	\$1,914.00	\$2,144.00
Microbial Control	\$5,770.15	\$6,257.33
Fungi	\$1,610.00	\$646.00
Nematode	\$2,552.00	\$2,774.00
Endowment	\$9,131.43	\$8,958.98
Martignoni	\$13,604.79	\$14,767.43
Chris Lomer Memorial	\$4,065.99	\$4,615.07
TOTAL	\$177,269.10	\$185,553.38

COMPARATIVE STATEMENT OF FINANCIAL POSITION FOR PERIODS ENDED MAY 1, 2004 THROUGH APRIL 30, 2005

ASSETS	2004	2005
Cash Merrill Lynch - EMA	\$180,969.92	\$135,465.00
Accrued Interest Receivable	\$-	\$236.00
Funds Receivable	\$965.00	\$-
Funds Payable	\$(2,045.94)	\$(1,953.99)
Certificates of Deposit	\$-	\$49,851.00
TOTAL ASSETS	\$179,888.98	\$183,598.01

EXHIBIT B

SOCIETY FOR INVERTEBRATE PATHOLOGY
COMPARATIVE STATEMENT OF ACTIVITY
FOR PERIODS ENDED MAY 1, 2004 THROUGH APRIL 30, 2005

REVENUE	<u>2005 Activity</u>		Total 2005	Total 2004
	General Fund	Board Designated Funds (Schedule 1)		
Slide Atlas Sales	\$ -	\$ -	\$ -	\$ 105.00
Membership Dues	\$ 13,500.00	\$ 2,780.00	\$ 16,280.00	\$ 14,051.00
Annual Meeting (2001)	\$ -	\$ -	\$ -	\$ 2,458.53
Annual Meeting (2002)	\$ -	\$ -	\$ -	\$ 18,510.97
Annual Meeting (2003)	\$ -	\$ -	\$ -	\$ 9,150.00
Annual Meeting (2004)	\$ 21,160.63	\$ -	\$ 21,160.63	\$ -
Annual Meeting (2005)	\$ 4,500.00	\$ -	\$ 4,500.00	\$ -
Transfer to Divisions (speakers & student travel)	\$ -	\$ 12,000.00	\$ 12,000.00	\$ 6,800.00
Contributions	\$ 100.00	\$ 2,494.00	\$ 2,594.00	\$ 2,490.00
Interest	\$ 1,509.16	\$ 198.27	\$ 1,707.43	\$ 2,336.97
Publication Handling Fees	\$ 177.00	\$ -	\$ 177.00	\$ 150.00
TOTAL REVENUE	\$ 40,946.79	\$ 17,472.27	\$ 58,419.06	\$ 56,052.47
EXPENSE				
Postage and Delivery	\$ 1,498.63	\$ 84.82	\$ 1,583.45	\$ 810.60
Newsletter - Printing, Mailing (including meeting abstracts), and Supplies	\$ 1,471.77	\$ -	\$ 1,471.77	\$ 2,379.92
Supplies and Duplicating	\$ 384.22	\$ -	\$ 384.22	\$ 217.22
Office Equipment	\$ 782.74	\$ -	\$ 782.74	\$ -
Accounting Services	\$ 1,200.00	\$ -	\$ 1,200.00	\$ 2,775.00
Internet Services	\$ 201.55	\$ -	\$ 201.55	\$ 222.00
Secretariat (Peg's Salary)	\$ 11,050.00	\$ -	\$ 11,050.00	\$ 9,767.00
Telephone	\$ 1,066.23	\$ -	\$ 1,066.23	\$ 566.51
Awards - Speaker and Student Travel	\$ 2,890.44	\$ 15,197.00	\$ 18,087.44	\$ 14,563.49
Credit Card Charges	\$ 1,406.88	\$ -	\$ 1,406.88	\$ 1,010.39
Bank Account Fees	\$ 180.00	\$ -	\$ 180.00	\$ 300.00
Meeting Speakers (Transfer to Divisions)	\$ 12,000.00	\$ -	\$ 12,000.00	\$ 6,800.00
2004 Meeting - Seed Money	\$ -	\$ -	\$ -	\$ 10,000.00
2005 Meeting - Seed Money	\$ -	\$ -	\$ -	\$ 5,000.00
2005 Meeting - Travel for Executive Secretary	\$ 650.50	\$ -	\$ 650.50	\$ -
MCD T-shirt	\$ -	\$ 70.00	\$ 70.00	\$ -
2003 Meeting Loss	\$ -	\$ -	\$ -	\$ 24,248.41
Donation	\$ -	\$ -	\$ -	\$ 1,000.00
Short Course Expense	\$ -	\$ -	\$ -	\$ 985.54
TOTAL EXPENSE	\$ 34,782.96	\$ 15,351.82	\$ 50,134.78	\$ 80,646.08
Net Revenue Before Fund Transfers	\$ 6,163.83	\$ 2,120.45	\$ 8,284.28	\$ (24,593.61)
Endowment Fund Transfer	\$ 360.00	\$ (360.00)	\$ -	\$ -
Net Revenue After Fund Transfers	\$ 6,523.83	\$ 1,760.45	\$ 8,284.28	\$ (24,593.61)

EXHIBIT C

**SOCIETY FOR INVERTEBRATE PATHOLOGY
BOARD DESIGNATED FUND REVENUE AND EXPENSE
FOR PERIODS ENDED MAY 1, THROUGH APRIL 30, 2005**

Schedule 1

	Virology	Bacteria	Microsporidia	Microbial Control	Fungi	Nematode	Endowment	Martignoni Fund	Chris Lomer Fund	Total
REVENUE										
Membership Dues	\$ 1,114.00	\$ 632.00	\$ 230.00	\$ 342.00	\$ 240.00	\$ 222.00	\$ -	\$ -	\$ -	\$ 2,780.00
Contributions	\$ -	\$ -	\$ -	\$ -	\$ 43.00	\$ -	\$ 120.00	\$ 1,812.00	\$ 519.00	\$ 2,494.00
Speaker Contrib. from SIP fund	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ -	\$ -	\$ -	\$ 6,000.00
StudentTravel Contrib. from SIP fund	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ -	\$ -	\$ -	\$ 6,000.00
Interest Income							\$ 67.55	\$ 100.64	\$ 30.08	\$ 198.27
Total Revenue	\$ 3,114.00	\$ 2,632.00	\$ 2,230.00	\$ 2,342.00	\$ 2,283.00	\$ 2,222.00	\$ 187.55	\$ 1,912.64	\$ 549.08	\$ 17,472.27
EXPENSE										
Speaker Awards	\$ 1,500.00	\$ 1,000.00	\$ 1,000.00	\$ 1,100.00	\$ 2,247.00	\$ 1,000.00	\$ -	\$ 750.00	\$ -	\$ 8,597.00
Student Travel Award	\$ 1,500.00	\$ 1,500.00	\$ 1,000.00	\$ 600.00	\$ 1,000.00	\$ 1,000.00	\$ -	\$ -	\$ -	\$ 6,600.00
Postage for T-shirts to 2004 Meeting	\$ -	\$ -	\$ -	\$ 84.82	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 84.82
MCD Tshirt	\$ -	\$ -	\$ -	\$ 70.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70.00
Total Expense	\$ 3,000.00	\$ 2,500.00	\$ 2,000.00	\$ 1,854.82	\$ 3,247.00	\$ 2,000.00	\$ -	\$ 750.00	\$ -	\$ 15,351.82
Net Revenue Before Fund Transfers	\$ 114.00	\$ 132.00	\$ 230.00	\$ 487.18	\$ (964.00)	\$ 222.00	\$ 187.55	\$ 1,162.64	\$ 549.08	\$ 2,120.45
Fund Transfers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (360.00)	\$ -	\$ -	\$ (360.00)
Net Revenue After Fund Transfers	\$ 114.00	\$ 132.00	\$ 230.00	\$ 487.18	\$ (964.00)	\$ 222.00	\$ (172.45)	\$ 1,162.64	\$ 549.08	\$ 1,760.45

Exhibit D

Note 1: Membership Dues (previous; current)	2004	2005
Full Member (372@\\$30; 423@30)	\$ 11,070.00	\$ 12,690.00
Student Member (46@\\$15; 54@\\$15)	\$ 675.00	\$ 810.00
Microsporidia (1@\\$2, 45@\\$5; 46@\\$5)	\$ 227.00	\$ 230.00
Virology (5@\\$2, 91@\\$10; 11@\\$2, 109@\\$10)	\$ 920.00	\$ 1,114.00
Bacteria (57@\\$2, 26@\\$10; 71@\\$2; 49@\\$10)	\$ 374.00	\$ 632.00
Microbial Control (172@\\$2; 171@\\$2)	\$ 344.00	\$ 342.00
Fungi (114@\\$2; 120@\\$2)	\$ 228.00	\$ 240.00
Nematode (43@\\$5; 40@\\$5, 11@\\$2)	\$ 215.00	\$ 222.00
TOTAL	\$ 14,053.00	\$ 16,280.00

1



Jeff Lord, Don Roberts & Steve Wright.....continue the reunion.

Exhibit D, Note 2: Interest and Investments

		CD Fremont Inv & Loan
Society Operations:		
Cost		22,999.52
Maturity Date		8/24/05
Interest Rate		2.65%
Endowment Fund:		
Cost		9,198.98
Maturity Date		8/24/05
Interest Rate		2/65%
Chris Lomer Fund		
Cost		4,096.07
Maturity Date		8/24/05
Interest Rate		2.65%
Martignoni Fund		
Cost		13,705.43
Maturity Date		8/24/05
Interest Rate		2.65%
Total Value		50,000.00

Exhibit D, Note 2: CD Detail

CD Name	2002			
CD WesternBank PR	23,197.79	171.59	Society Operations	1/26/05
CD WesternBank PR	9,131.43	67.55	Endowment Fund	1/26/05
CD WesternBank PR	4,065.99	30.08	Chris Lomer Memorial Fund	1/26/05
CD WesternBank PR	13,804.79	100.64		1/26/05
Total	50,000.00	369.86		



Bryony Bonning and Bruce Tabashnik on Prince Edward Sound

Audit of the Treasurer's Report for Fiscal Year 2004-2005

The treasurer's report appears to be accurate and in order. The Society is in good shape financially with an increase in total assets from \$179,889 last year to \$183,598 this year. The Helsinki meeting produced a profit of \$11,161 for the society. General membership dues increased from \$14,053 in 2004 to \$16,280 in 2005. Due to low interest rates, funds are currently held in short-term 6 month CDs. We encourage the Treasurer and Board to keep a close eye on interest rates and invest when appropriate. Newsletter costs, thanks to Lee Solter, Vince D'Amico and Gernot Hoch continue to decline (\$2,379 in 2004 to \$1,471 in 2005). Overall, the Society returned to a net gain of \$8,284 after a loss of \$24,593.60 in FY 2004 and gains of \$12,027 in FY 2003, \$16,773 in FY 2002, and \$21,394 in FY 2001.

Division funds continue to be healthy. Transfers of \$1,000 from the general fund to support Division speakers must be spent to support invited speakers. Unspent funds will be returned to the general fund each year.

In FY 2005, full memberships (FY 2004, 372; FY 2005, 423) and student memberships (FY 2004, 46; FY 2005, 54) increased, a reverse in the trend for declining memberships from previous years. The Society should continue efforts to maintain and attract new members, both student and full.

In summary, the Society is financially healthy with a net gain observed in FY 2005.

Michael R. McGuire and Mary Barbercheck
Audit Committee

Executive Secretary Report 2005

Over the past year, I have performed the following contractual and extra-contractual duties as executive secretary:

Contractual Activities:

- Newsletter printing and distribution via website and post
- Membership database management
- Biannual membership renewals via email and post
- Accounting for 6 Divisions and 3 SIP funds
- Annual income tax preparation accountant

- Annual financial report data for treasurer and all divisions
- Membership reports including tabular and graphic analysis for all divisions
- Election ballot preparation and distribution
- Correspondence from members and officers

Extra-contractual Activities:

- Website
- Established "real time" and VISA compliant gateway with YourPay Connect to process online credit card payments
- Redesigned membership forms
- Redesigned Virus Division web pages
- Developed an online Meeting Survey with Mark Goettel & provided results for member viewing
- Assisted officers and Division chairs in membership mass emailing and communication
- Established online access to JIP for members
- Established a members-only section of website for obtaining membership receipts

Teleconferencing

- Organized teleconferencing services for national and international conferences
- Organized inaugural 2005 mid-year council meeting

Accounting

- Established new non-profit accounting service
- Local firm: Conry and Taylor Company, Knoxville, Tennessee
- Discontinued James Moore & Company due to difficulties in communication with this Florida firm

Membership

- Assisted membership committee in locating "lost" emeritus and honorary members
- Future Plan: Publish list on website

Acknowledgements:

I want to give special thanks to our treasurer Suzanne Thiem, Newsletter editor, Leellen Solter and all the officers of SIP that work generously to make SIP a wonderful organization.

As always, please feel free to contact me with questions or comments.

Respectfully submitted,
Peg Rotstein, Executive Secretary

2005 SIP Newsletter Report

Three issues of the Newsletter comprising a total of 88 pages were produced in 2004-2005. In addition to newsletter text, 1 8-page supplement was printed. The supplement consisted of the registration forms for the Alaska meeting. Meeting announcements, SIP meeting registration, position announcements and other information of a timely nature was also posted on the SIP Website.

Text was prepared in Urbana, Illinois and printed in Knoxville, Tennessee. Printed Newsletters were mailed to U.S. members using the U.S. Postal Service and to other countries using Deutsche Post Global Mail.

The Newsletter is available on the Society's website as downloadable PDF files. Approximately 72% of members chose to receive only online copies of the Newsletter. Increased online access reduced printing and mailing costs by \$1,016.06 over 2004 costs. The average annual cost of producing the Newsletter for the 3 years preceding the advent of the electronic version was \$15,419 compared to \$1,296.76 for 2005. We encourage all members with Internet access to accept the online Newsletter in lieu of a paper copy.

We are grateful to all members who contributed material to the Newsletter this year, particularly photographs and member news, and encourage all members to provide news and information of interest to the Society. Special thanks to Peg Rotstein for final layout, printing, collating and mailing.

Financial Report-Newsletter, July, 2005

Total cost of Newsletter (3 issues): \$1,296.76.

Cost per member based on 476 members: \$2.72

	Nov. 2004	Feb. 2005	June 2005	Totals
	Vol 37(3) 48 pp.	Vol 38 (1) 20 pp	Vol 38 (2) 20 pp.	88 pp
Printing	\$ 304.20	\$ 139.95	\$ 146.95	\$591.10
US	\$ 52.89	\$ 47.00	\$ 48.76	\$148.65
Mailing				
Int'l	\$ 255.60	\$ 177.30	\$ 124.11	\$577.01
Mailing				
Totals	\$ 612.69	\$ 364.25	\$ 319.82	\$1,296.76

Respectfully submitted,

Leellen Solter, Editor

Gernot Hoch, Assistant Editor

Vince D'Amico, Assistant Editor

COMMITTEE REPORTS

Meetings Committee Report

The 37th Annual Meetings were held in Helsinki, Finland. Approximately 330 persons attended. More details can be found in the Helsinki Report. The Committee is very grateful to Drs. Hokkanen and Eilenberg and their team for the organization of an excellent meeting both scientifically and socially. All participants enjoyed Helsinki's hospitality and the good weather.

The Committee communicated frequently with the Organizing Committee of the 38th Annual Meeting in Anchorage, Alaska and is expecting a very successful meeting at another interesting venue. Council approved Wuhan, People's Republic of China for the 9th International Colloquium on Invertebrate Pathology and Microbial Control (ICIPMC), 39th Annual Meeting of SIP, and the 8th International Conference on *Bacillus thuringiensis* (ICBT); August 27- September 1, 2006. Details can be found in the Wuhan report.

The Committee has received a proposal from Dr. Jean-Louis Schwartz and colleagues for a Quebec City venue for 2007. The Committee is recommending to Council ratification of this proposal.

The Committee has the intention to maintain an international spread of future meetings, alternating venues between Northern America and other parts of the world. The Committee is awaiting offers for the 2008 Annual Meeting and beyond. At present, the U.K. would be a favored venue for 2008, although a formal proposal has not yet been submitted. The approved and tentative sites for SIP Meetings through 2010 are as follows:

2006 ^{1,2}- Wuhan, China (approved)

2007- North America (Quebec City, approval pending)

2008 ²- "Non North America" open, U.K.?

Proposals solicited

2009- North America, Central or West?

Suggestions solicited

2010 ^{1,2}- Suggestions solicited; A North American International Colloquium?

¹ International Colloquium

² International Conference on *Bacillus thuringiensis*

The Committee conducted a survey of members regarding meetings via a questionnaire which was made available on-line in mid-July, 2004. The responses were tabulated and made available on-line to all members in 2005. The Committee will use the results in making recommendations to Council for changes in Meetings Policies in the future. Thanks are due to Peg Rotstein for making the survey available on-line and for tabulating the results.

The Committee has prepared a Draft Meetings Guide, which is included as Appendix 2. The Committee is soliciting comments from Council, as well as past, present and future Meeting's Chairs for their input and comments.

Members of the Committee are Brian Federici, Mark Goettel (Chair), Lerry Lacey and Flavio Moscardi.

Respectfully submitted,
Mark Goettel, Chair

Membership Committee

There are currently 472 members (Table 1), a marginal increase from 466 in 2004. Of the 2004 members, 119 members did not renew their membership for 2005.

There has been an increase in North America (221=>250), partially offset by a decline in Europe (131=>115) (Fig. 1). Numbers for other regions have been more or less stable over the past three years.

There has been a decline in membership of the Divisions since 2004 (Table 2), with the Microbial Control and Fungus Divisions declining by about 13%. The Bacteria, Virus and Nematode Divisions recorded some growth.

Activities during 2004-5

The Membership Committee was reconstituted after the Helsinki meeting to provide broad representation across the Divisions, with some attention being given to regional and age groups. Division Chairs were asked to nominate members for the committee. The committee for 2004/05 is Neil Crickmore, Betty Davidson, Caroline Hauxwell, Trevor Jackson, Juan Jurat-Fuentes, Lerry Lacey, Andreas Linde, and Ray Akhurst.

The following list of ideas for a membership campaign was circulated and discussed by email:

1. Make up a pdf that would be available on the website for anyone to download. Send out an email and post an

announcement on website encouraging members to post the form on bulletin boards at their institutions and meetings that they attend.

2. Check the membership records over the last five years to identify former members who may have lost track of the Society by forgetting to renew in one year.

3. Review the membership records over the last five years for trends in membership drop. Find areas of membership that need to be improved (i.e. student membership, certain countries or regions) and make efforts to recruit in those areas.

4. Make a PowerPoint slide that members can download to include in their presentations that encourage membership.

5. Look through JIP for names and addresses of authors that are not members. Send a letter out encouraging membership. Perhaps Elsevier can provide us with names and addresses or emails???

6. Encourage online membership renewal by giving a discount.

7. Send reminders to members who fail to renew by the renewal deadline and three months after, if necessary.

Encourage on-time membership renewal by imposing a late penalty

8. An IT-gifted individual might be consulted on how we can identify people who attend SIP meetings who are not yet members and contact them regarding the benefits of the Society (include a brochure, list of upcoming meetings, etc.).

9. While attending other pathology related meetings (subsection Ce of the Entomological Society of America, the S-1024 meeting, Society of Nematology, IOBC microbial working group, the Siconbiol meeting in Brazil [of which Flavio Moscardi is a prominent member] and others) bring along SIP brochures and a copy of JIP, make announcements, proselytize!

10. We should also check into a free bit of advertising in JIP for SIP now that we are officially linked. Our meetings are being advertised less and less in venues such as the IOBC newsletters, ESA newsletter and the like. Our Society Secretary should make timely announcements to these groups for the gratis advertising that most of them are willing to do.

This [email] discussion proved to be quite difficult because each member tended to concentrate on a few points and we were unable to focus. Most of the Committee will meet in Anchorage to develop a coherent strategy for the campaign.

One question that was raised through the email discussion was whether invertebrate pathology best describes to the general scientific community where our strengths lie and whether the terminology conjures up an incorrect image in the minds of non-members. There was some debate about the merits or otherwise of changing the name of the Society, but there was a general consensus that a change in image would be desirable.

Three applications for Emeritus Membership were received and approved by the Committee. The new Emeritus Members were Professor Tosihiko Hukuhara (Japan), Dr Sophie Jakowska (Dominican Republic) and Dr Richard Milner (Australia).

Submitted on behalf of the Membership Committee
Ray Akhurst, Chair

Table 1. Calendar Year Membership (January 1 - July 20, 2005)

	Number	Percentage
Total Membership	472	
Number members renew/join online	466	99%
New members	85	18%
Renewals	387	82%
Members that did not renew from last year	79	
Full Members	370	78%
Student Members	48	10%
Endowed Members	12	3%
Honorary Members	10	2%
Emeritus	32	7%



Rob Fritts and Mike Dimock (It's the SIP-ping.....)

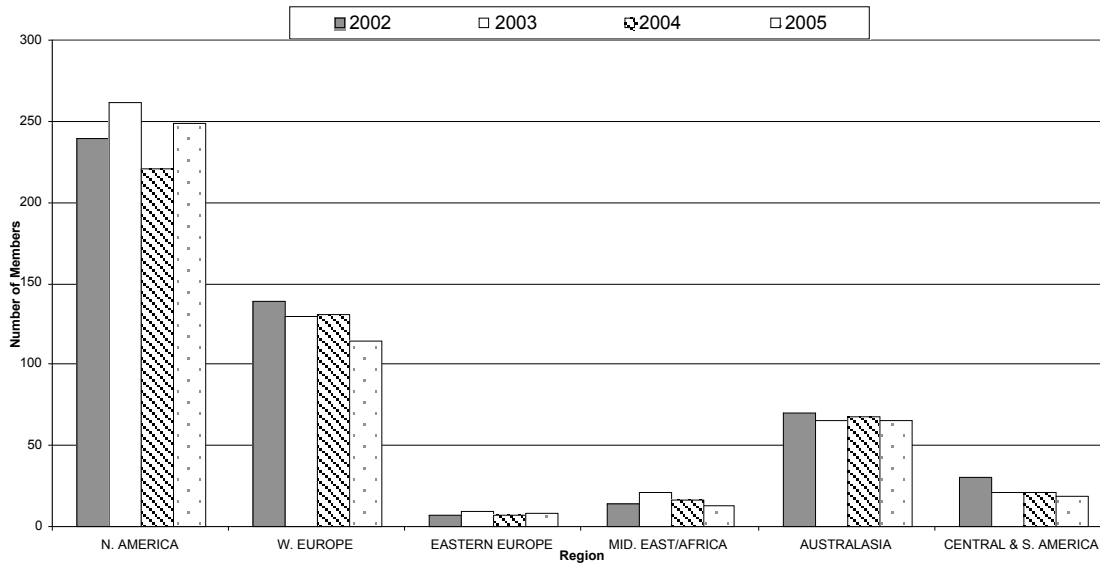


Table 2. Division membership

Division	Number of Members	
	2004	2005
Microsporidia	42	40
Microbial Control	179	156
Bacteria	86	98
Virus	95	104
Fungus	115	99
Nematode	43	47
TOTAL	560	544



Basil Arif, Zhihong Hu (Rose), Peter Krell and Jim Maruniak enjoy the SIP Banquet

SIP Endowment and Financial Support Committee

I. General: A proposed amendment to SIP By-laws to make the Endowment and Financial Support Committee a standing committee within the SIP was passed at the 2004 business meeting.

A job description for the Committee Chair was prepared. A new chair will be appointed by the end of 2005.

II. Corporate donations:

Table 1. Corporate donations

Company	Amount
AgraQuest	\$250
Bayer Crop Science	\$1,000
Bayer Bioscience	\$1,000
Becker Microbial Products	\$250
Certis	\$250
Dow	\$1,000
Monsanto	\$1,500
Pioneer	\$1,000
Syngenta	\$1,000
Taylor and Francis	\$500
Valent	\$1,000
Total	\$8,750.00

III. Memorial Fund: The Chris Lomer Memorial Fund was initiated in 2002 to provide grants that support travel to SIP meetings for insect pathologists working in the developing world. Although the fund has shown good growth, low interest rates and the relatively modest principal have made it impossible to grant so far. At the current rate of interest (approximately 0.6%), the fund earns less than \$50 per year (Table 2). Investment in a somewhat higher yielding account would make a significant difference in our ability to begin dispersing grants.

In last year's report, it was recommended that the fund's status be reviewed at the end of 2005. If the principal had not reached the level where significant interest income could be generated to support an award, it was recommended that the fund begin to disperse a modest

travel award (\$250), even if this required using a small portion of the principal. It is therefore recommended that an announcement be posted in the February, 2006 SIP newsletter soliciting applicants for a single \$250 travel grant to the SIP meetings in China. Criteria for selecting an awardee and appointment of a grant review panel will be coordinated by the Endowment and Financial Support Committee in conjunction with Council.

IV. Endowment and Martignoni Funds: A combination of healthy principal amounts and voluntary contributions by SIP members keep these funds in healthy operating shape, despite low interest rates. However, the Endowment Fund dipped into its principal once again in 2004/05, spending \$360 on 12 endowed memberships, even though interest generated was only \$68. For this reason, the Endowment Fund shows a decrease in its balance (-\$172) since last year. To keep with the spirit of the Endowment Fund, it is suggested that the Society subsidize last year's spending with \$292 — the difference between the \$360 spent and the \$68 in interest that was earned. Likewise, because the Martignoni Fund generated only minimal interest (\$100.64) during 2004/05, the difference between the 2004 student award of \$750 and the interest earned (\$649) should be subsidized by the SIP. Similar recommendations were made last year but not acted upon. If these recommendations are not adopted, the funds must consider decreasing their award amounts to match the interest earned. The potential for further subsidies by the SIP to both of these funds should be discussed at the Council meeting.

V. Recommendations for 2004/2005

The majority of funds in the Endowment, Martignoni and Lomer funds should be invested in 6 month, 12 month or even longer-term CDs to take advantage of higher interest rates. Pending advice from the Treasurer and SIP financial advisor, a pre-determined sum should not be invested in CDs in order to allow flexibility in awarding grants in the appropriate time frames. Without some action taken in this area, all funds will continue to operate at a deficit.

Because of continuing low interest rates, more funds were spent from both the Martignoni and Endowment Funds than they earned through interest alone in 2003, 2004 and 2005. The potential for further subsidies by the SIP to both of

these funds, and the procedures for approving these subsidies should be discussed at the Council meeting.

The Lomer Memorial Fund should award one \$250 travel grant in 2006, even if this requires dipping into the fund's principal. Award criteria and a grant evaluation panel should be appointed by the end of 2005.

A new committee chair should be appointed by the end of 2005.

Respectively submitted,
Wendy Gelernter

**Table 2. Status of corporate fund-raising, endowment and memorial funds:
2001 – 2005 (fiscal year ending 4/30)**

	2001	2002	2003	2004	2005	% change (2004 – 2005)
Corporate donations	13,000	8,650	9,150	7,182	8,750	22
Endowment	8,432	8,925	9,232	9,131	8,959	(2)
Martignoni	8,048	9,643	12,182	13,605	14,767	9
Lomer Memorial	----	1,466	3,683	4,066	4,615	14

Table 3. Interest vs. donations for year 5/1/04 - 4/30/05

	Endowment	Martignoni	Lomer
4/30/04 balance	9,131.43	13,604.79	4,065.99
Donations	120.00	1,812.00	519.00
Interest (~0.7%)	67.55	100.64	30.08
Expenses	(360.00) ¹	(750.00) ²	0
4/30/05 balance	8,958.98	14,767.43	4615.07
Net change (2005 balance - 2004 balance)	(172.45)	1,162.64	549.08

NOTES:

¹ \$360 expense for 12 endowed memberships

² \$750 expense for Martignoni student award

Founders' Lecture Committee Report

The members of the Founders' Lecture Committee are Professor Max Bergoin [France], Professor David Ellar [United Kingdom], Dr. John Vandenberg [United States of America] and Professor Dudley Pinnock [Australia] (Chair).

The Committee was convened during the Society's 2004 meeting, where an overview of past Founders' Honorees and Lecturers was presented by the Chair. The

Committee then deliberated on candidates for future Founders' Lecturers and Honorees. Subsequent communications within the Committee were made by email.

The Committee's unanimous recommendation was that, in recognition of their outstanding achievements and service to the broad science of invertebrate pathology, Dr. James Becnel be invited to be the Society's 2005 Founders' Lecturer and Professor Elizabeth Canning to be the Honoree.

On his return to Adelaide, the Chairman, on behalf of the Committee, sent a formal letter of invitation to Dr. Becnel to be the Society's 2005 Founders' Lecturer. It is a pleasure to report that the invitation was accepted. The Chairman then provided some general advice to Dr. Becnel on the general format of the Lecture. On receipt of Dr. Becnel's acceptance, the Chairman advised Professor Canning of her nomination as the 2005 Founders' Lecture Honoree and that the Lecture would be delivered in her honor by Dr. Becnel.

Brief biographies of Dr. Becnel and Professor Canning were sent to Dr. Lee Solter in early 2005 for publication in the Society's Newsletter. Early in 2005 also, the Chairman drafted the citations for the Lecturer and Honoree to be placed on the Founders' Lecturer certificates. These citations were sent to Professor James Harper for forwarding to the engrosser. The Committee wishes to express again its sincere thanks to Professor Harper for arranging the production of the certificates on behalf of the Society.

It is anticipated that Dr. Becnel will deliver the Society's 2005 Founders' Lecture in honor of Professor Canning during the Opening Plenary Session of the Anchorage meeting, and that the 2005 Founders' Lecturer and Honoree certificates will be awarded immediately after the Lecture or during the banquet.

If Council so determines, the Founders' Lecture Committee will convene during the Society's Anchorage meeting to consider and recommend the Founders' Lecturer and Honoree for the 2006 meeting and beyond. Under the provisions of Article VI, Section 4(g) of the revised By-Laws, the Committee's recommendations will in future be submitted by the Chairperson to the President and Council for approval. If and when the recommendations are approved by Council, the Committee will proceed to manage all aspects of the lectureship to ensure a successful Lecture and appropriate recognition of the Honoree and Lecturer.

Submitted to Council on behalf of the Founders' Lecture Committee,

By yours faithfully,
Professor Dudley Pinnock, Chair

Publications Committee Report

In summer 2004, the Publications Committee sent the SIP Executive Council a suggestion that the Steinhaus

and Martignoni Glossary be revised and published on the SIP web site. (This glossary was originally published in printed form over 30 years ago as a US Forest Service publication. Dr. Martignoni expressed his desire to see a new addition published.) The Executive Council informally considered this to be a good idea. Jim Harper recently sent the electronic version of the glossary to Lee Solter and David Onstad.

After receiving positive feedback again from the Publications Committee in June, 2005, Onstad formally requested that each Division select two members to work on this project. Onstad suggested that each Division should communicate this opportunity to its members as soon as possible and that a decision be made at or soon after the next SIP meeting in August. Since the education of our students is a major reason for this effort, Divisions may want to encourage at least one person with teaching experience to volunteer. Onstad also requested that Wendy Gelernter ensure that at least one or two non-insect invertebrate pathologists also be appointed to this ad-hoc "Glossary" committee.

The current deadline for the work is June 2006. The goal is to prepare a glossary that will help educate students and professionals so that they can understand past and present literature in invertebrate pathology. David Onstad will be coordinating the activities of the Glossary Committee. Lee Solter and David will deal with minor copyright issues. Each member of the ad-hoc Committee will be acknowledged and credited for their work as editors.

Submitted by
David Onstad, Chair

Student Affairs Committee: Annual Report

In its second year since inception, the Student Affairs Committee is presently comprised of five student volunteer members: Todd Ugine (Microbial Control: Chair), Ernest Jan Schotle (Fungi), Heather Smith (Nematode), Christina Campbell (Microsporidia), Claudia Perez (Bacteria), and one faculty advisor, Dr. John Vandenberg. This annual meeting marks Todd's final days as chair and Christina Campbell will be assuming the mantle thereafter.

Last year's annual meeting in Helsinki Finland (2004) saw our committee's first organized event, a cross-divisional workshop entitled "The Graduate Students Guide to the Galaxy." Six society members, David Shapiro-Ilan, Helen Roy, Leellen Solter, Patricia Stock, James D. Harper, and Jeroen VanRie, participated in a panel discussion aimed at elucidating what potential employers are looking for in potential employees. There was at least one panel member from each sector of the invertebrate pathology world (academia, government and industry). We believe that the workshop was well received by those in attendance and were pleasantly surprised to see many senior members present. What was lacking in this endeavor was proper advertising that 1) the Society for Invertebrate Pathology has a Student Affairs Committee, and 2) that we were organizing a workshop for graduate students. Attendance could have been better and we have plans to increase our visibility at future meetings.

The state of our finances remains unchanged. The funds of the Student Affairs Committee are still at their original level of \$300.00. Expenses incurred in preparation for and at the annual meeting were negligible.

Todd Ugine

Student Affairs Committee Chair

SIP History Committee Report

The History Committee, led by Jim Harper, Betty Davidson, and Harry Kaya, organized a symposium on the history of SIP for the 2004 meeting in Helsinki, Finland. This symposium included the following talks:

Introduction - James D. Harper

History of the Society for Invertebrate Pathology - Elizabeth W. Davidson

From Metchnikoff to Monsanto and beyond: the path of microbial control - Jeffrey Lord

Past, Present and Future of Microsporidia in the SIP - Jaroslav Weiser (due to travel problems, presented by Jimmy Becnel)

Insecticidal Bacteria in Historical Perspective: An Overwhelming Success for Invertebrate Pathology - Brian A. Federici

From Bergold to Burand: A Journey with Insect Viruses - Basil Arif

Insect Parasitic Nematodes: From Lab Curiosities to Model Organisms - S. Patricia Stock

The Fungal Past, Present and Future: Germination, Ramification and Reproduction - J.D. Vandenberg

Conclusions and Final Remarks - Elizabeth W. Davidson

The enthusiasm with which this session was received led Brian Federici to suggest that the talks be converted to manuscripts for a special issue of the Journal of Invertebrate Pathology. The authors agreed, and during late 2004 and early 2005, E. Davidson and J. Harper reviewed these manuscripts. The issue appeared as the May, 2005 issue of JIP, (Volume 89 Number 1) and also included three papers on the history of the *Oryctes* virus, from a second symposium at the Helsinki meeting edited by Trevor Jackson, as well as a chapter on history of non-insect invertebrate diseases by Albert Sparks. This wonderful issue contains many photos, long history, and personal reminiscences. Extra issues were printed and were available at the Annual Meeting in Anchorage, and are available to members and other interested persons.

Elizabeth W. Davidson

OBITUARIES



**Mabry Steinhaus
(1914-2005)**

Dear Colleagues,

It is with sadness that I write to tell you that Mabry Clark Steinhaus, a major figure in the founding and first 40 years of our school [University of California, Irvine], died peacefully in her sleep on Saturday morning, July 16th, 2005, at the age of 91.

Mabry Clark was born May 31, 1914, in a small town in central Mississippi, and became one of the first women to attend Mississippi State University

when it became co-ed in the 1930's. She majored in Bacteriology, and went on to get an MA in Bacteriology from the Ohio State University, where she met and later married Edward Steinhaus, our founding dean. Throughout their time together, Mabry assisted Ed in his work as he pioneered the field of Insect Pathology. Mabry, Ed and their children came to UCI in 1963. Although Ed died in 1969, Mabry has been a constant presence at UCI and in Biological Sciences, and in addition to her involvement in numerous campus support groups, she has been part of the annual Biological Sciences Honors Convocation (including the one in June 2005), where Edward A. Steinhaus Memorial awards are presented to outstanding graduate students for their teaching and mentoring skills. For her contributions to the campus Mabry was awarded the coveted Lauds and Laurels Extraordinarius Award in 1983.

To honor Mabry's life and her involvement with Biological Sciences from its beginning, the family would like to place a permanent physical memorial to Mabry within the school. Friends and colleagues wishing to make a donation to the Mabry Steinhaus Memorial Fund, please go to--
<http://www.bio.uci.edu/alumni/msteinhaus.html>

Sue Bryant

*Dean & Professor, School of Biological Sciences
 University of California, Irvine*

[Used with permission of Dr. Bryant &
 The UCI School of Biological Sciences website]



Dr. Tom Angus

Tom Angus (1916-2005)

After having served in World War II as a bombardier in the Royal Canadian Air Force stationed in England, Tom

Angus returned to Canada with a Distinguished Flying Cross and enrolled himself as a Biology Major at the University of Guelph. In the summer of 1945, Tom, along with Art Heimpel, worked as a summer student at the Insect Pathology Research Institute in Sault Ste. Marie, Canada and started examining various spore-forming bacteria for their insecticidal activity. It was then that he discovered that the bacterium isolated by Berliner from *Thuringia* induced paralysis in the silkworm. Thus began his illustrious career as a pioneering Insect Pathologist who laid the groundwork for all the recombinant technology using the crystal toxin from *Bacillus thuringiensis*. Tom later went to McGill University and obtained a Ph.D. in Microbiology, returned to The Insect Pathology Research Institute, and worked alongside Ted Bird and Don McLeod. They were often referred to by their fellow scientists as the “three wise men”. Although the parasporal crystal in *Bt* was observed by Ishiwata in Japan, Steinhaus in the US and Hannay in London, Ontario, it was Tom who showed that the crystal was toxic to the silkworm and was responsible for rapidly inducing paralysis. Tom in his typical self-effacing style described it as the “fortuitous excellence of this group that resulted in the pieces of the puzzle coming together”.

He was a founding member of the Society for Invertebrate Pathology in 1967 when he also served as a Trustee. Tom was President of the Society in 1976-1978.

Tom Angus passed away on June 16th at the age of 89 in London, Ontario, Canada. All his friends and colleagues have fond memories of Tom and cherish all the wonderful stories he used to relate. He was a history buff and had a superb command of the English language, a combination that made him a “raconteur par excellence”. Once when a group of us were walking with him past the Plains of Abraham in Quebec City, Tom described in graphic detail the battle that took place. It was like listening to the “Ancient Mariner”!

Tom was an unpretentious simple person who was liked by all around him. He will be remembered as a wonderful human being and a meticulous scientist.

Arthur Retnakaran

Great Lakes Forestry Center

Sault Ste. Marie, Ontario, Canada

ANNOUNCEMENTS

**Consideration of Change in ByLaws:
Election Procedures****Justification:**

Current ByLaws require that a paper ballot be mailed to each member of the Society and that the marked ballots be returned in a double envelop process that is cumbersome and has frequently resulted in invalid ballots because mailing rules were not followed. Ballots have been disqualified due to postal problems and failure to meet deadlines. Handling these ballots is also time consuming and calls for judgement on the part of tellers as to the validity of poorly marked ballots, procedures, and other issues. The electronic balloting proposed in this amendment should eliminate human error and judgment from the voting process.

The voting system employed will record the member's name as ballots are returned, but this will not be tied to her/his vote. It will prevent multiple votes by any member by blocking them from voting a second ballot. The system will allow a member only the required number of votes to be cast for a given office. If one vote is to be cast for an office with two or more candidates, only one 'check' will be allowed by the program. Checking a second candidate's name will erase the check for the first. This will prevent invalid votes from being cast. By mailing electronic ballots only to members on the membership list, there will be no question of eligibility. Votes will accumulate in a counting file as they are received, again separately from the names of those who have cast ballots. The tellers will serve to verify the list of voters and the total number of votes each candidate receives from results provided to them by the executive secretary. They will be available to handle any issues or disputes that may occur.

It is anticipated that this procedure will result in a higher level of participation by members in the voting process, and in the elimination of invalid or confusing ballots.

Suggested Changes:

Section 2. Elections. The Secretary shall prepare and direct the Executive Secretary to send, no later than the first day of March, ~~a~~ an electronic ballot bearing all valid nominations for office (whether made by the Nominating Committee or by petition) to all members of the SOCIETY. The ballot shall also include nominations for Trustees (ART. IV, Sec. 1) and, if any, for Honorary Membership (ART. 1, Sec. 4).

Each member shall vote for or against each of the candidates on the ballot and shall transmit it ~~properly sealed for secrecy to the Secretary electronically and according to instructions on the ballot to the Executive Secretary. To be counted, the sealed unmarked ballot envelope must be placed in an outer envelope, marked with the name and address of the voting member. The electronic balloting system shall provide anonymity for each member voting.~~ Ballots must be received by the Executive Secretary on or before the date announced by the Secretary in the SIP Newsletter.

The Executive Secretary shall ~~reject ballots from members who are in arrears one year or more in payment of dues, shall deliver all valid sealed ballots-balloting results~~ to Tellers appointed by the President to take charge of the election, ~~and shall report to the Council upon ballots rejected.~~ The Tellers shall ~~count the ballots~~ verify and record the ballot counts and report the results to the Secretary, who shall first notify each nominee and then announce the results in the next available issue of the SIP Newsletter.

The candidates who receive the highest number of votes for the offices of Vice President, Secretary, and Treasurer, respectively, shall be declared elected. In case of a tie vote, a majority of the Council shall decide which nominee is elected.

Insect Pathogens Being Sequenced

Baylor College of Medicine in the U.S. is in the process of sequencing the genomes of *Paenibacillus larvae larvae* (the cause of American foulbrood in honey bees) and the data are freely available, with minor restrictions on use, basically preempting whole-genome comparisons but encouraging the use of genes for any biological studies. Community efforts for annotation and analyses are being coordinated by Jay Evans (USDA/ARS Beltsville, MD evansj@ba.ars.usda.gov), and input is welcome. Other honeybee pathogens are also on the list for future sequencing, such as the causative agent for chalkbrood, *Ascosphaera apis*. Be aware that the sequencing projects are incomplete at this point and thus their use accompanies some risk of error. Baylor's microbial genomics site is www.hgsc.bcm.tmc.edu/projects/microbial/. Select

"More information" at the microbe of interest for a BLAST search or an ftp site of the sequence.

Contributed by *Rosalind James*

MEMBERS ON THE MOVE

Dr. Minshad Ali Ansari

I have joined the fungal group at the Department of Biological Science at the University of Wales Swansea, UK as postdoctoral fellow with Dr. T.M. Butt. I am working on development of the entomogenous fungus *Metarhizium anisopliae* for control of black vine weevil and thrips in horticultural growing media.



I started my professional career as a plant nematologist with Dr S.B. Sharma at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India and worked on nematode management for 3 years. I was then selected for a scholarship from the Flemish Interuniversity Council (VLIR) for an International Nematology Course organized by Gent University, Belgium in 1998. In 1999, I began work on a Ph.D. in the same university under supervision of Prof. M. Moens and Luc Tirry. My research focused on the combined use of entomopathogenic nematodes and fungi to control white grubs in turf and ornamentals. With increasing interest in microbial control of pests, I have demonstrated the effectiveness of these biocontrol agents when they are applied together. After completion of the Ph.D. in May 2004, I joined the Agricultural Research Centre, Merelbeke, Belgium as a postdoctoral fellow to pursue more fundamental research in the same direction.



Dr Minshad Ali Ansari

Department of Crop Protection, Agricultural Research Centre, Burg. Van Gansberghelaan 96
B-9820 Merelbeke
Belgium

Tel: + 32-9-272 2447; Fax: + 32-9-272 2429

Dr. Ansari provided the above photograph of one of his study subjects: *Spodoptera exigua* larva infected with *Paecilomyces fumosoroseus* (CLO 55 Belgian isolate).

Dr. Pasco Avery

Dr. Avery reports the following new address:

Pasco Avery, Ph.D.
Shattuck St. Mary's School
P.O. Box 218
Fribault, MN 55021
Email: pavery@s-sm.org

Michael Brownbridge

They say time flies when you're having fun, which means that the last 15 years at the University of Vermont were great, as I have no idea where the time went! My time in the States was marvelous, and the friends and colleagues in Vermont and throughout the US will be missed, but earlier this year I decided to accept a new position with AgResearch Ltd. in Lincoln, New Zealand. I left in August to join the well know trio of Travis Glare, Trevor Jackson and Maureen O'Callaghan in the Biocontrol and Biosecurity Section. Accordingly, it seems I may be required to grow a beard to fit in with my new male compadres. Oh well. Work-wise, I'll initially be focusing on microbial control of soil and pasture pests, wood-boring beetles, and non-target impacts of new crop protection technologies. But as with most things in life, that is all subject to change as time progresses! New contact information:

Michael Brownbridge, Ph.D.
AgResearch Ltd.
Gerald Street, P.O. Box 60
Lincoln, Canterbury, New Zealand
Email: michael.brownbridge@agresearch.co.nz
Tel: ++64 (0)3 325 9983

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.

MEMBER NEWS



Mike McManus was the winner of the Purdue University "J.V. Osmun Alumni Professional Achievement Award in Entomology" for 2005. The awards ceremony took place during the 2005 Purdue University Homecoming. Mike has served his entire career with the USDA Forest Service, where, as a

researcher, Research Leader and Project Leader, he has had an enormous impact on forest pest research, particularly as an expert on the invading gypsy moth. Mike has achieved several important milestones, including saving the USDA Forest Service Forest Pathology Research Unit that had been targeted for termination; promoting the use of *Bacillus thuringiensis* as a safer pesticide for gypsy moth control, especially in sensitive environments; editing (with C.C. Doane) the 757 page tome that gypsy moth researchers refer to as the 'gypsy moth bible'; and for the past 16 years, organizing the USDA Interagency Forum on Gypsy Moth and other Invasive Species, a highly successful and important meeting for researchers studying forest pest invasions. In addition, Mike has taught courses at Yale University and at Universität für Bodenkultur in Vienna, Austria. He has been incredibly supportive of forest health researchers in Eastern Europe; the cooperations he fostered have enhanced the careers of several scientists.

Congratulations, Mike!

POSITIONS AVAILABLE

Center Director (Head), Center for Ecological Entomology (CEE), Illinois Natural History Survey (INHS), Champaign, IL. The successful candidate will serve as administrative head of CEE and conduct externally funded research in agricultural, medical, or environmental entomology. Requires Ph.D. in entomology or related discipline, relevant administrative experience, demonstrated leadership and team-building skills, strong record of independent research, and interest in outreach or extension education. CEE includes 8 Ph.D. scientists conducting research in insect pathology,

ecotoxicology, biocontrol, integrated pest management, organic production, biosystematics, insect behavior, and medical entomology, assisted by 25 research, technical, and support staff. The INHS is part of the Illinois Department of Natural Resources and an Affiliated Agency of the University of Illinois at Urbana-Champaign, IL. For more information and application position requirements, see:

<<http://www.inhs.uiuc.edu>>http://www.inhs.uiuc.edu/_opportunities/index.php Deadline: Until filled.

Assistant Professor, Vector Biology

Position location: Manhattan, Kansas USA

Position Description: Applications are invited for a tenure-track Assistant Professor position in vector biology, including the areas of vector-borne disease, molecular entomology, or insect physiology. A Ph.D. or equivalent and post-doctoral training are required. The position includes a competitive salary and start-up package.

The Division of Biology (<http://www.ksu.edu/biology>) features a diverse, collegial, and interactive faculty who collectively bring in over \$10 million per year in extramural funding. Excellent research facilities exist at KSU, including a dedicated BSL-3 building currently under construction. For a complete job description please visit our website. Applicants should submit a comprehensive curriculum vitae, statement of research and teaching interests, representative publications, and have three letters of reference sent to the address below. Review of applications will begin December 2, 2005 and continue until the position is filled.

Contact information for applicants:

Dr. Rollie Clem, Chair

Vector Biology Search Committee

Division of Biology

232 Ackert Hall

Kansas State University

Manhattan, KS 66506-4901

E-mail: rclem@ksu.edu

Comments: KSU is an Equal Opportunity/Affirmative Action Employer, and actively seeks diversity among its employees.

Research Associate, Arizona Research Laboratories, University of Arizona, NIH-IRACDA Program in Postdoctoral Excellence in Research and Teaching (PERT)

Several positions are available in the Postdoctoral Excellence in Research and Teaching (PERT) Program. This is a comprehensive program that offers up to three years of support to outstanding candidates seeking advanced post doctorate research training, teacher training and student mentorship in preparation for an academic career. PERT trainees may select from among over forty-two faculty research mentors representing a broad range of disciplines in biomedicine, bioengineering, genetics, biochemistry, neurobiology, evolutionary biology, molecular/cellular biology, physiology and behavior. The program stresses the use of non-vertebrate models for Biomedical and Life Sciences research. The program is administered through the Arizona Research Laboratories Division of the Center for Insect Science and is partnered with a Minority Serving Institution, Pima Community College. Starting salary for program participants with less than one year of postdoctoral experience will be \$35,568, with an annual allowance of \$6,000 for research supplies and \$1,500 for travel. Additional information about the Center for Insect Science and the PERT program is available at <http://cis.arl.arizona.edu/PERT>

Applicants must have a Ph.D. in a related field and must be U.S. citizens or permanent residents. Applicants should have no more than two previous years of postdoctoral experience. Underrepresented minorities are especially encouraged to apply.

All applicants must apply electronically through the University of Arizona Career Track website at:

<https://www.uacareertrack.com>, citing job #32236. All applications are to include:

- a letter of interest with a statement explaining how the PERT program will assist the applicant in her/his career goals
- a CV
- a three to six page research proposal developed with the intended PERT faculty research mentor describing the project to be undertaken during the training period
- three letters of reference
- a letter of support from the intended faculty research mentor

Please note: Original letters of reference and the faculty research mentor letter of support should be mailed to: PERT, Center for Insect Science, P.O. Box 210106, University of Arizona, Tucson, AZ 85721-0106. The letter of interest, CV and research proposal should be submitted on-line through the Career Track website.

Review of applications will begin **January 9, 2006** for appointments beginning thereafter and will continue until positions are filled. The University of Arizona is an EEO/AA/ADA Employer.

Research Entomologist. The USDA, Agricultural Research Service, Bee Biology & Systematics Laboratory (BBSL), Logan, UT, is accepting applications for a permanent, full-time RESEARCH ENTOMOLOGIST to be responsible for a broad area of research on the population dynamics and management of bumblebees to improve the pollination of commercial crops of blueberries, small fruits, and greenhouse tomatoes, and to evaluate wild bumblebee decline in the U.S. The primary mission of the BBSL is the development and management of non-Apis bees as sustainable pollinators of agricultural crops across the U.S. Salary is commensurate with experience (\$50,541- \$93,643). U.S. citizenship is required. Access the vacancy announcement at www.usajobs.com. For information on the research program and/or position contact: Dr. R. R. James at (435) 797-0530 or via e-mail at rjames@biology.usu.edu. For information on application procedures contact John Watterson at (435) 797-3071. Applications in response to this advertisement should be marked ARS-X6W-0042 and postmarked by January 23, 2006. USDA is an equal opportunity provider and employer.

Contact information for applicants:

Dr. R.R. James
rjames@biology.usu.edu
 USDA/ARS Bee Biology & Sys. Lab
 USU-BNR 261
 Logan, UT 84322-5310
 435-797-0530
 OR
 Dr. John Watterson
 435-797-3071

POSITIONS WANTED

Pathology position: I am looking position for research work in invertebrate pathology or agricultural entomology. I have 5 years experience in lab and field use of biopesticides such as entomopathogenic nematodes and entomopathogenic fungi including Paecilomyces, Beauveria, Metarhizium and Trichoderma. Contact information: Patel Nilam Kumar S. 7/19, Locarno Avenue, Sandringham Auckland, New Zealand Ph.00649-8157123, Mobile:00649-212663664 Email: neelamzeel@sify.com

Postdoctoral position. I am on the lookout for a suitable postdoctoral assignment or research scientist/ investigator position matching my field of expertise in a challenging and competitive environment. I am working as Assistant Professor of Entomology at Punjab Agricultural University Ludhiana. I have a Ph.D. in Entomology and have worked on virus vector relationships, Integrated Pest Management and host plant resistance. Presently, I am in Gainesville, Florida with my wife who is pursuing her Ph.D. program at University of Florida. My research skills include: insect rearing, experimental design, field layouts, computer and biotechnological tools like PCR, statistical analysis using software packages and manually. I have experience in research, teaching and extension on sugarcane and cotton crops, specifically on transgenics. I have guided one Masters student in Entomology. I am able to independently design and conduct experiments and can bring grants.

Contact information:
Rajinder Singh Mann
288 #13 corry village,
UFL Gainesville, FL-32603
email - mannkk@ufl.edu
rajsmann@rediffmail.com

IPM position. I wish to work on integrated pest management related issues. My area of interest includes microbial control of diamondback moth, and the pests of vegetables.

Contact information:
Dr Abhishek Shukla
3 F 13, Sector-5, Hiran Magri, UDAIPUR-313 002,
India

FUTURE MEETINGS AND WORKSHOPS

Call to attend the 9th International Colloquium on Invertebrate Pathology and Microbial Control, 39th Annual Meeting of the SIP and the 8th International Conference on *Bacillus thuringiensis* (SIP2006)



**Huazhong Agricultural University
Wuhan, P. R. China, August 27- September 1, 2006**

Meeting website: <http://sip2006.hzau.edu.cn>
Mirror website: <http://www.genesoft.net.cn>

With help of the SIP leadership the meeting of 2006 has been initiated and is progressing well. Special thanks should be given to the President, Dr. Just Vlak, for his enthusiasm and patience during his two trips to China in March and November this year. Dr. Just Vlak discussed almost every planning detail of SIP2006 with the local organizing committee (LOC), visited the meeting site, sampled the accommodation services and provided helpful suggestions. After a close inspection, Dr. Just Vlak felt pleased about the organization and enjoyed a

happy dinner with members of the LOC at the meeting site, Zhongnan Garden Hotel.

The local organizing committee has signed cooperation agreements with the hotel, the travel agency, and transportations companies; established the meeting website; applied for assistance from the China Society of Microbiology; and recruited competent working staff to ensure that SIP2006 is moving smoothly.



**President Dr. Just Vlak and Local Committee
Members at the Zhongnan Garden Hotel**

Information Resource. Members who are interested in SIP2006 can find information on the SIP2006 web site. Any questions related to the meeting will be dealt with as soon as possible.



Chinese style Dining Hall



President Dr. Just Vlak and Local Committee Members of SIP 2006

Call for Symposia. The organizers of Division symposia, assigned during SIP2005, are urged to contact the Division chairs and the LOC of SIP2006 and verify the title of the Symposium papers before February 1st 2006.

Virus Division:
James Maruniak
marun@nervm.nerdc.ufl.edu

Microbial Control Division:
Michael Brownbridge
michael.brownbridge@uvm.edu

Fungus Division:
Jørgen Eilenberg
Joergen.Eilenberg@ecol.kvl.dk

Bacteria Division:
Christina Nielsen-LeRoux
cnielsen@pasteur.fr

Microsporidia Division:
Gernot Hoch
hoch@ento.boku.ac.at

Nematode Division:
Parwinder Grewal
grewal.4@osu.edu

Problems/Suggestions for SIP2006

If you have any problems or suggestions, please send email to the Secretary of the local committee:

Dr. Sun Ming
Email: m98sun@mail.hzau.edu.cn

PUBLICATIONS

The second edition of *Histological Techniques for Marine Bivalve Mollusks and Crustaceans* (Howard et al. 2004) is now available upon request. This expanded edition updates the "Histological Techniques for Marine Bivalve Mollusks" manual by Howard and Smith (1983). Histological technicians worldwide will find the 218-page manual a friendly source for histological processing of shellfish.

Copies are available by contacting:

Susie Hines
Oxford Marine Library
US Department of Commerce - NOAA, NOS
Center for Coastal and Environmental Health and Biomolecular Research
Cooperative Oxford Laboratory
904 S. Morris Street
Oxford, MD 21654-1323
Phone: 410-226-5193
Email: Susie.Hines@noaa.gov

There is no charge for an individual copy. Please discuss any mailing costs and shipment of multiple copies with Susie Hines.

Biological Invasions

D. Pimentel

For copies: K. Lewis, CRC Press/T & F Group, 600 Broken Sound Parkway, NW, Suite 300, Boca Raton, FL 33487, USA. EMail: KLewis@crcpress.com. Phone: 1-877-561-994-0555; Fax: 1-561-989-9732. Web: <http://www.crcpress.com>.

Forty five contributors from six continents have provided well-known entomologist/ecologist D. Pimentel with often dramatic information about invasive species, one of the world's burgeoning and most costly biothreats. The result is a hardbound, 2004 monograph edited by Dr. Pimentel, "Biological Invasions--Economic and Environmental Costs of Alien Plant, Animal, and Microbe Species", that confirms the diverse, broad, and unpredictable impacts that non-native species can inflict when they invade new (to them) ecosystems. From the U.K. to New Zealand and Brazil to South Africa, bioinvaders pose both environmental and economic threats, as chronicled in this 18 chapter, 379-page work. The bulk of the text addresses impacts and estimated costs with relatively sparse commentary on approaches for stemming the tide and working for sustainable management of invasive species, such as the serious steps being taken to contain and eliminate plant escapes and noxious species in Australia, or the recent organization of a national invasive species group within the U.S. government.

Reprinted from IPMNet News, Issue 140, August 2005

MICROBIAL CONTROL NEWS

Green Guard Registration

Stefan Jaronski notes that Green Guard Metarhizium was recently registered in Australia by Becker Underwood (a US firm). For details, see
<<http://services.apvma.gov.au/PubcrisWebApp/ProductDetails?tab=General&prodCode=55737>

Laverlam Acquires BotaniGard and Mycotrol

From the Emerald Biosciences Website via Mark Goettel:

BotaniGard and Mycotrol are now held by Laverlam International Corp. Laverlam has purchased the business in its entirety and has product available. Their contact information is provided below.

Laverlam International Corp.

117 S. Parkmont, P.O. Box 4109

Butte, MT 59701

Tel 406-782-2386, x14

Fax 406-782-9912

www.laverlamintl.com

Bt Maize Planted in Kenya

A long, uncompromisingly careful research program culminated on 27 May 2005 when scientists associated with the Insect Resistant Maize for Africa (IRMA) project planted the first transgenic *Bt* maize in a Kenyan field in a step to thwart the 30% and greater yield loss caused by the stem-borer *Chilo partellus*.

IRMA scientists led by S. Mugo have patiently followed each exacting procedure and required governmental clearance before being allowed to import transgenic maize seed. The field trials are being undertaken to verify the results from trials held at a biosafety greenhouse, which was officially opened in June of 2004. Researchers will now be checking to see how the transgenic maize holds up under field conditions.

"Stem borers destroy some 400,000 tons of maize in Kenya each year, nearly equal to the nation's annual imports of the crop," said R. Kiome, Director of the Kenya Agricultural Research Institute (KARI). By growing *Bt* maize plants, farmers won't have to worry about the pest or have to apply pesticide to counteract the destruction", Dr. Kiome said. "This is part of an innovative approach to help Kenyan farmers fight the insect pests, and it translates into increased food security and incomes," he asserted.

IRMA, a joint research project of KARI and CIMMYT (Centro Internacional Mejoramiento Maize y Trigo International Maize and Wheat Improvement Center), is supported by the Syngenta Foundation for Sustainable Agriculture and the Rockefeller Foundation, and was launched in 1999 with a primary goal of increasing maize production and food security for African farmers through the development and deployment of improved maize varieties that provide high resistance to insects, particularly stem borers. The Kenya *Bt* maize experiment is the first of its kind in the region.

CIMMYT's Dr. Mugo noted that the trials will serve two purposes: 1) to determine the effectiveness of various transgenic *Bt* genes against common Kenyan stem borers; and, 2) plants will be crossed with Kenyan maize lines as part of a breeding process that will produce *Bt* maize varieties adapted to Kenyan growing conditions. The project is also developing stem borer resistant varieties using conventional breeding, Mugo said.

The trials are being conducted in strict accordance with terms proscribed by the Kenyan plant health regulatory body KEPHIS and the KARI and National Biosafety Committees, Mugo stresses. The open quarantine site where the confined trials are underway was built to their specifications and includes many biosafety and security measures to ensure that pollen, seed, or plant materials do not escape the trial area or cross inadvertently with maize not included in the experiment. S. Mugo, IRMA Project Mgr., PO Box 25171, Nairobi, KENYA. Mailto:S.Mugo@cgiar.org. Fax: 254-2-522879. Phone: 254-2-522878. --excerpted, with thanks, from a CIMMYT news release.

Reprinted from IPMNet News Issue 139, July 2005

Study Cites GM Crop Benefits

A new study published in the UK says that after almost a decade of use, genetically modified (GM) crops have racked up a series of benefits to the global economy and environment through decreased use of pesticides and reduced greenhouse gas emissions from agricultural activities, while also generating farm level economic gains.

The study and consequent report, "GM Crops: The Global Socio- Economic and Environmental Impact--The First Nine Years 1996-2204," both were conducted and prepared by G.J. Brookes and P.D. Barfoot, partners in the firm of PG Economics (UK), said to be "independent and objective consultants" focused on agricultural matters. No sponsor was listed for the GM study. The full report and summary are posted at <http://www.pgeconomics.co.uk> as freely downloadable files.

The report says that, for the period studied, growers utilizing GM crops in 18 countries collectively cut pesticide use by 6 percent, equivalent to a decrease of 172.5 million kg (380 billion lb.), and reduced fuel usage by 1.8 billion L. (475 million gal.) thereby significantly lowering greenhouse gas emissions.

Economic gains were another benefit cited in the study which noted that growers in the U.S. and Argentina were the major beneficiaries, each group gaining approximately US\$10 billion in the past nine years while production of primarily GM cotton increased Chinese growers' income approximately US\$4 billion.

The authors note that more than 8.25 million farmers in 18 countries have adopted GM crops, and that "90 percent of those are resource-poor producers located in developing countries."

*-> PG Economics Ltd., Wessex Barn, Frampton, Dorchester, Dorset, DT2 9NB, UK. Fax: 44-0-1303-840959. Phone: 44-0-1300-321501.

-excerpted, with thanks, from the PG Economics website.

Reprinted from IPMNet News, Issue 142, October-November, 2005.

LETTERS TO THE EDITOR

Two historical contributions were received from SIP members, Dr. Gill Roberts and Dr. Karl Maramorosch.

Out of Peru

In the mid seventeenth century the first preventative measures against malaria were discovered in Peru.

The bark of the *Cinchona officinalis* tree provided the world with quinine, the first specific remedy for intermittent malaria fever. The bark is ground into a powder and taken orally as an infusion. It proved to be a powerful antipyretic, the body temperature was lowered preventing the parasite invading red blood cells.

In the mid nineteenth century on the Chincha islands off Peru, another valuable product was discovered. Fortunes were made from the dried droppings of sea birds, called guano. This could be found many feet deep and had to be mined. The guano was shipped to Britain and became an instant success as a most popular fertilizer.

In the late twentieth century the Tropical Institute in Lima has provided another novel approach for mosquito larval control. Coconuts have been used as incubators when the naturally occurring bacterium *Bacillus thuringiensis* subsp. H-14 (*Bt* H-14) is added. The *Bt* H-14 is introduced on a cotton swab through a hole made in the coconut. The hole is sealed while incubation takes place. The coconut milk contains the right ingredients for the bacteria to reproduce. After fermenting for 2 or 3 days, the coconut is broken open and thrown into a pond containing mosquito larvae. The *Bt* H-14 controlled the larvae for 12 to 45 days. This has proved an economical way of producing *Bt* H-14,

the cost of importing commercial *Bt* products being prohibitive for developing countries. Earlier research had tried other fruits used for making fermented drinks but found that coconuts were by far the best. The shell provides a safe cover from contamination and coconuts are plentiful. Another advantage is that it is a method safe for communities to use. It would be interesting to know if other tropical countries had used this method with success.

Contributed by *Dr. Gill M. Roberts*

References:

- Lambert, A.B. 1821. An illustration of the great genus *Cinchona*: comprising descriptions of all the Peruvian barks, including several new species. London: J. Searle.
- Taylor, N. 1943. Quinine: The story of *Cinchona*. New York: *Cinchona products Institute*.
- Mathew, W.M. 1981. The House of Gibbs and the Peruvian Guano monopoly.
- Ventosilla P. 1999. Coconuts against Malaria. Instituto de Medicina Tropical, Lima, Peru.

Women Pioneers of Invertebrate Cell Culture

In 1915, when Professor Richard Goldschmidt started insect tissue culture at the Osborn Laboratory at Yale University, a German parasitologist, Dr. Rhoda Erdmann, was also working there. Both were strongly influenced by Dr. Ross G. Harrison, whose pioneering work at Yale led to the foundation of animal cell culture. On the night of May 1, 1918, military intelligence officers awakened students near the Osborn Laboratory to find out why lights were burning in certain rooms. Goldschmidt was arrested, interned at Fort Oglethorpe in Georgia, and accused of spying by giving signals to German submarines in the Long Island Sound. Many accepted this accusation, although the windows of the laboratory were at the rear of the building and the lights could not be seen from the harbor. The war hysteria was mounting and anything German was anathema. After the war ended, Goldschmidt returned to Germany. He published his three papers on insect tissue culture but never mentioned Rhoda Erdmann. Erdmann was taken incommunicado to Hartford in 1918, accused of poisoning the New Haven drinking water and of introducing chicken cholera to the United States. Jailed until February 1919, she was finally released and permitted to leave for Germany.

I suspect that Erdmann participated in Goldschmidt's tissue culture work, and thus was the first woman pioneer

of invertebrate cell culture, although Goldschmidt never mentioned her name. He never returned to insect cell culture, while Erdmann became Europe's most prominent cell culture researcher. She organized the first, second and third European tissue culture congresses and she created the Section of Cell Research at the Cancer Institute in Berlin. After the Nazi takeover, Erdmann was jailed for two weeks while the Gestapo searched her institute and her apartment. During this time, her laboratory was permanently closed and she was forced to retire. Dr. Erdmann died in 1935 at the age of 64. In 1992, the German section of the European Tissue Culture Association created a research fund named for Rhoda Erdmann.

In 1945, insect tissue culture media were greatly improved by Silver S. Wyatt, who continued her silkworm tissue culture work during the following decade. At the 1st International Colloquium on Invertebrate Tissue Culture in Montpellier, France in 1962, a large number of women presented their work: A. Amargier, Rosine Chandebois, S. Chastang, Isabel Cunningham, R. Gay, J. Godet, A. Grigorova, A.M. Leloup, M. Lemattre, M.F. Maury, Annie Ohanessian, Nadine Plus, C. Sengel, and several others. In 1967, at the 2nd Colloquium in Tremezzo, Italy, Silvania Dollfini, Carlotta Halfer, Helena Libikova, Mary Pudney and Imogene Schneider contributed important papers. Absent were Medvedeva from Ukraine, not permitted to travel abroad, and Ush Pant from Pune, India.

In 1969, Rita Levi Montalcini published the first of a dozen papers on *in vitro* studies of the embryonic nervous system of *Periplaneta americana*. The experience gained in studying cockroach tissues *in vitro* led to Rita's milestone discovery of the nerve growth factors which earned her the Nobel Prize.

In 1971, at the 3rd Colloquium in Smolenice, Slovakia, some of the female participants included Sonya M. Buckley, V. Danielova, R. Kreizova, D. Malkova, M.C. Rosales-Ronquillo, Z.M. Zielinsha, and M. Zupanokova. In the United States, Marion Brooks, Elizabeth Gateff, Marcia Loeb; and in Japan, Emiko Furuta at Dokkyo University Medical School, became well known for their important contributions. They were soon followed by Cynthia L. Goodman, Ann Fallon and Ulricke G. Munderloh. Now that the invertebrate cell culture

has come of age, women pioneers continue to entrust this work to their skillful successors.

*Karl Maramorosch
Department of Entomology, Rutgers University, New Brunswick, NJ.*

FROM THE EDITORS



Dr. Maramorosch (shown here on the SIP excursion in Alaska) notes that he has, with the exception of Erdmann, Silver-Wyatt and Medvedeva, met all the scientists mentioned in his report. He also notes that the SIP disclaimer holds for his contribution, which is 'not guaranteed as to accuracy or completeness'. He hopes, therefore, that his report stimulates additional notes about

women pioneers or concerning those who were inadvertently omitted.

Excellent photos were provided this year (so far more are always welcomed) by Peter Krell, Gerry and Ginger Carner, Mickey McGuire, Don Roberts and Wendy Gelernter. Thanks to all for providing interest (and humor!) to the Newsletter.

The local arrangements committee has provided an intriguing announcement for next year's meeting; it's time to begin making plans and travel arrangements. Watch for registration materials and detailed information in the February Newsletter.

We wish all of you a safe and joyful New Year!

Lee Solter, Gernot Hoch and Vince D'Amico



SIP takes on Alaska!