



**9<sup>th</sup> International Colloquium on  
Invertebrate Pathology & Microbial Control  
39<sup>th</sup> Annual Meeting of the  
Society for Invertebrate Pathology  
8<sup>th</sup> International Conference on  
*Bacillus thuringiensis*  
Wuhan, China  
August 27<sup>th</sup> to September 1<sup>st</sup>, 2006**

The 9<sup>th</sup> International Colloquium on Invertebrate Pathology and Microbial Control (ICIPMC), 39<sup>th</sup> Annual Meeting of the SIP, and 8<sup>th</sup> International Conference on *Bacillus thuringiensis* (ICBt) were held successfully. It was the first time the conference was held in China. More than 400 people from 33 different countries came together in Wuhan, China to attend the conference. Prof. Yu Ziniu and Dr. Sun Ming, from Huazhong Agricultural University, co-chaired the organizing committee. Dr. Hu Zhihong (Rose) of Wuhan Institute of Virology, Chinese Academy of Sciences, did a great job with the program as the scientific program Chair. Students from the Microbial Pesticide Research Group of College of Life Science and Technology at Huazhong Agricultural University were in charge of the local arrangements, including visa support, registration, the social program, BBQ, 5-K run/walk, and Banquet. The 39<sup>th</sup> Annual Meeting began on

Sunday, August 27, 2006 with morning registration, the SIP Council Meeting in the afternoon and an evening welcome mixer. The following days, Monday through Thursday, were filled with the scientific and social programs.

**Scientific Program.** The meeting was opened on August 28 with an opening speech by Dr. Just Vlak, SIP President. He introduced the development of the science around microbial control agents in China and praised the work of Chinese scientists. Prof. Yu, as Chair of the 2006 SIP Organizing Committee, welcomed every friend from over the world. The scientific program then opened with the Founder's Lecture and Plenary Session. The Founders' lecture entitled "Gao Shang Yin (1909-1989), The Founding Father of Invertebrate Virology and Cell Culture" was presented by Dr. Just Vlak. Prof. Liu Niancui, the wife and longtime collaborator of Prof. Gao, attended the conference and gave us her personal thanks. The Plenary Session entitled "Microbial Control in Asia" featured four speakers. During the 4 days of scientific meetings, 196 oral presentations were given in 11 special symposia, 18 contributed paper sessions, 1 workshop and 1 plenary session.

#### TABLE OF CONTENTS

39 <sup>th</sup> Annual Meeting, Wuhan, China.....	1
2006 Martignoni Award & Lomer Awards.....	3
Fun Run/Walk Winners.....	6
Letter from the President.....	6
Minutes of the 2006 Business Meeting.....	10
2006 Division Meeting Minutes.....	12
Annual Reports.....	21
Committee Reports.....	32
Obituaries.....	40
SIP History.....	40
Microbial Control News.....	42
Members on the Move.....	43
Positions Available.....	43
Positions Wanted.....	45
Publications.....	45
Past Meetings.....	47
Future Meetings and Workshops.....	47
From the Editors.....	48
SIP 2006 in Pictures.....	49

**Deadline for the next Newsletter is February 1, 2007**

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**Professor Just Vlak**  
**2006 Founders' Lecturer**

In addition, 129 posters were presented in two separate sessions. The meeting places and the accommodations were located in the courtyard of Zhongnan Garden Hotel. It was very convenient for the participants to attend symposia and facilitated more interaction among them. In addition, many reporters from the local TV and broadcasting stations, and several magazines attended the meeting and gave representative reports.

**Social Program.** The welcoming mixer was held in the Haitiangong Dining Hall and courtyard of Zhongnan

**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 February 1, 2007.**

**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.

Garden Hotel on the evening of Sunday, August 27. In addition to the delicious food and meeting old friends, everyone also enjoyed the long corridor, rockery and pool with spectacular fish in the courtyard, and began a memorable journey in Wuhan, China. Tuesday was the busiest day of all. After the morning sessions and the Society general meeting, the excursion, 5K fun race, and BBQ took place. Most of the SIP participants first visited the Yellow Crane Tower, Hubei Museum and Wuhan Botanical Garden. At the end of the excursion, about 6:00 pm, the 5K race/walk began. Unfortunately, the weather was a little hot that day, so only 28 people joined the 5K race/walk. But all the runners very much enjoyed the beautiful scenery as they ran and walked through the bamboo, lotus, Chinese gooseberry, herb and azalea gardens. After the 5K race, the BBQ began at the Huajing Plaza, and featured plenty of food and drinks, 5K fun race award ceremonies, dancing to a professional but traditional live band, and entertainment. Attendance at the BBQ was approximately 400, including the meeting participants, their companions and many other friends. The Society banquet concluded the Annual Meeting on the evening of Thursday, August 31. It was held at the Yangchun Hall of Zhongnan Garden Hotel, and followed the usual format with awards ceremonies, food, drinks, and dancing to live music. After the meeting, about 60 participants and their companions took part in one of two tours: a three-day tour of the Three Gorges on the Yangtze River or a four-day tour of Xi'an.... A good and memorable time for all of us!



Opening ceremonies for SIP 2006

**Sponsorship.** We are deeply grateful for the generosity and assistance from the companies of Lv'an Biological Pesticide, Hengfeng Instrument, Beckman Coulter and Aquapro. We would also like to thank the SIP corporate sponsors, including AgraQuest, Bayer CropScience, Bayer Bioscience, Becker Microbials, Certis USA, Dow

AgroSciences, Monsanto, Pioneer, Syngenta, Taylor and Francis Ltd. and Valent Biosciences.

Thanks to all of you who attended the meeting and assisted in a variety of ways. Special thanks to Dr. Just Vlak who came to Wuhan twice before the meeting and gave us important suggestions and assistance for the organizational work. Also, thanks to Dr. Wendy Gelernter, who imparted her experience about SIP meetings and good suggestions to us, and assisted us in making the conference run smoothly. We also thank Margaret (Peg) Rotstein, who solved the problems of fee collections and provided convenience to both of the participants and us. The meeting is a rewarding experience for us all and we look forward to seeing you in Canada in 2007.

Respectfully submitted,

*Prof. Yu Ziniu*

*Chair of the 2006 SIP Organizing Committee*

PS: We will upload the pictures that have been collected to the SIP2006 website (<http://sip2006.hzau.edu.cn>). If you have good pictures, you are welcome to send them to us. The attendee list also will be uploaded to the SIP 2006 website.



Incoming SIP President Wendy Gelernter thanks meeting organizers Dr. Hu Zhihong (Rose), Professor Yu Ziniu and Dr. Sun Ming

## 2006 SIP STUDENT AWARDS

The 2006 Martignoni Travel Award was presented to **Onya Opot**, University of Nice, Sophia Antipolis, Nice, France.

## 2006 MARTIGNONI TRAVEL AWARD



**Onya Opota**  
**University of Nice**  
**Sophia Antipolis, Nice, France**

Eighteen months ago I had my worst and my happiest memory during the same day. To be waiting for the examiners' ranking after the audition ending my qualification year for PhD was the worst one. The best one was the announcement of my qualification for PhD studies. From this day I wish to honor the chance I have to achieve my dream. My motivation thrives on the fact that my work can contribute to development of strategies to control vectors of human diseases such as those that affect people of my country of origin, the Democratic Republic of Congo.

One of the main topics of the laboratory I am working in is the study of the mode of action of the *Bacillus sphaericus* binary toxin (Bin) on mosquitoes. Previous work identified an  $\alpha$ -glucosidase, Cpm1, as the membrane receptor of Bin in the midgut of larvae. The project mainly focuses on the cellular mode of action of Bin based on heterologous expression of its specific receptor. This project includes three parts: i) Identification, characterization and heterologous expression of Bin receptor in *Anopheles gambiae* larvae to elucidate the mode of action of Bin on these mosquitoes. This will provide a model that could be compared to *Culex* Cpm1. ii) Determination of the involvement of the presence of Cpm1 in lipid rafts

cellular microdomains thanks to a mutated Cpm1 on its GPI anchoring sequence to generate a transmembrane protein. Lipid rafts location of many bacterial toxin targets have been demonstrated but in our case the implication of this peculiar distribution in the toxin mode of action has to be evaluated. iii) Endocytic and intracellular trafficking pathways of Bin and induced vacuolation. I have stained the two components of the toxin - BinA and BinB - to track it inside the cell. Then I have stained different intracellular compartments to determine the toxin fate. Finally I tried to elucidate by which pathways BinA and BinB enter the cell by blocking different internalization mechanisms.

Following completion of my PhD, I wish to proceed with post-doctoral studies and hope to continue research on bacterial toxins as I think they constitute very promising tools for agronomy and medicine. In that respect, I might also consider to shift towards the study of vectors of human diseases to find new targets for their control or elucidate some mechanisms of their ability to transmit pathogenic microorganisms.

**Onya's presentation was titled "*Cellular mode of action of the Bacillus sphaericus binary toxin*"**

**Congratulations, Onya!!**

**Watch for photos and bios of Division Travel Award winners and Paper/Poster Award winners in the February 2007 issue.**



**2006 Oral Presentation Winners**



**2006 Poster Presentation Winners**

**2006 SIP LOMER AWARD**



**Drauzio Rangel**  
**2006 Lomer Award**

Drauzio E. N. Rangel, from Sao Paulo, Brazil, graduated with a B.S. in Biology from São Francisco University in Bragança Paulista, SP in 1983. He then moved to Campinas State University, Campinas, SP in the Department of Genetics, where he worked on fungi for biological control of *Triatoma infestans* and *Panstrongylus megistus*, insect vectors of *Trypanosoma cruzi*, the protozoan that causes Chagas disease in humans. He worked in this laboratory for three years, and traveled several times to the Chagas disease endemic regions in Brazil (state of Tocantins) applying the insect-pathogenic fungus *Metarhizium anisopliae* to *Triatoma*

habitats and evaluating its effects on populations of this medically important insect vector.

In 1986, he returned to São Paulo to work in his parent's Hidegraf Printing Company, Ltd., developing computer-graphic skills. During this time he attended scientific meetings and seminars and took classes in entomology and botany at São Paulo State University in São Paulo. For three years Drauzio also spent his weekends as a biologist guide for the ecotourism company Pé de Poeira Ltd.

Drauzio started his own laboratory in Itatiba, SP (Inbioter, Ltd.) in 1987 to conduct research on the insect-pathogenic fungi *Metarhizium anisopliae* and *Beauveria bassiana*. He presented several reports at scientific meetings on data generated in his lab. Drauzio met his future mentor, Donald W. Roberts, in 1994, when Dr. Roberts visited the laboratory while Drauzio was researching the control of the flea *Pulex irritans* with *Beauveria bassiana*, endemic in chicken farms in Itatiba.

In 1998 he began a Master of Science (MS) degree program in microbiology at the State of Sao Paulo University in Jaboticabal, SP. His thesis involved studies on the fungi *Verticillium lecanii* and *Aphanocladium album* as control agents for the rubber-tree-pest insect *Leptopharsa heveae*. He also served as the student representative on the Graduate Program of Microbiology Board. His advisor, Dr. Antonia do Carmo Barcelos Correia, gave him a great opportunity to start his dreamed-of career.

Soon after completing his MS degree in 2000, Drauzio joined D. W. Roberts in the Department of Biology at Utah State University as a visiting scholar. In 2002, Drauzio applied to the National Council for Scientific and Technological Development (CNPq) of Brazil for a Ph.D. fellowship. Receiving this prestigious fellowship in August 2002, Drauzio began studying at USU for a Ph.D. degree.

Drauzio currently is working with the fungus *M. anisopliae*, studying its phenotypic variations in tolerance to UV-B radiation and heat, two sun-related stress factors for the fungus in the field. He was awarded the "AAASPD Geraldine K. Lindsay Award for Excellence in the Natural Sciences" by Pacific Division of the American Association for the Advancement of Science (AAAS) for his poster presentation entitled "Stress-inducing cross

protection to UV-B radiation and heat in *Metarhizium anisopliae* conidia” at their 85<sup>th</sup> Annual Meeting at Utah State University, June, 2004. Drauzio also received a travel award from the Fungi Division of the Society for Invertebrate Pathology in 2005, Anchorage, AK.

Drauzio looks forward to continuing his life-long interest in insect pathology when he returns to Brazil in 2006 and begins teaching and researching insect pathology and microbiology in a Brazilian University.

Drauzio’s oral presentation was titled “**Relationship of trehalose and polyol accumulations to increased conidial heat and UV-B tolerance in *Metarhizium anisopliae* conidia produced under sub-lethal stresses**” and included A. Anderson and D.W. Roberts as co-authors.

### Fun Run & Walk



.....and the race is on!

Nearly 30 SIP’ers braved the heat and completed the Annual 5K (this year, mercifully, approx. 2.5K) Run/Walk. They were well rewarded for the effort by an opportunity to wend their way through the lovely Wuhan Botanical Gardens. Walkers and runners alike were then treated to a ride on the ‘Shower Bus’ before the BBQ.

### 2.5K WALK

#### Under 35:

1st: Kaijun Luo

#### Over 35:

1st: Lee Solter and Jimmy Becnel

2nd: Fan Sun

#### Men under 35:

1st: Konasale J. Anilkumw

2nd: Enqi Du

3rd: Thomas Kolling

### 2.5 K Run

#### Men over 35:

1st: Neil Crickmore

2nd: Stephan Dietrich

3rd: Gernot Hoch

#### Women under 35:

1st: Feifei Yin

2nd: Carolyn V. Mander

#### Women over 35:

1st: Lorena Passarelli

2nd: Charlotte Nielson



The ‘Shower Bus’

### FROM THE PRESIDENT

Saying 谢谢 (Thank you)

The SIP’s major focus has always been our annual meetings. They offer us a week in which we hear from scientists from all parts of the world about the research that matters the most to us, where we strengthen existing collaborations and develop new ones, and where we nurture students and young scientists who are just beginning their careers. But the meetings are not only that. They are also times



to visit new places and to learn about the state of invertebrate pathology around the globe, and to enjoy new cultures, new foods and new acquaintances. And they are times to enjoy friendships – over meals and on 5k walks, in workshops and on tour buses, and even on the dance floor. I know that I look forward, as most of you do, to every year's meeting, knowing that I will return home inspired (if not a little bit tired from all of that dancing!), having once again experienced the joy that comes from scientific, intellectual and social exchanges that transcend the national and political barriers that separate so much of the world.

谢谢 to the 2006 Local Arrangements Committee



**Local Arrangements Committee**

Our momentous and wonderful annual meeting in Wuhan, China has met all of these criteria, and more. For this, we must say 谢谢 to Professor Ziniu Yu, the Local Arrangements Chair, Dr. Zhihong (Rose) Hu the Co-Chair, Dr. Ming Sun, the Secretary and the many members of their dedicated and hard working committee. The scientific program, organized with her usual conscientiousness and efficiency by Zhihong Hu, packed our days with an intensive program whose depth and breadth were impressive. We were privileged to hear Founder's Lecturer Just Vlak speak on the important contributions of Founder's Honoree Dr. Shangying Gao (thanks to Dudley Pinnock and the Founder's Lecture Committee for choosing so well, once again), and we

were moved to hear Professor Gao's wife and longtime collaborator, Niancui Liu, give us her personal thanks. We were excited to hear from and to meet for the first time the many Asian colleagues who are not usually able to attend SIP meetings. And we were stimulated to hear and see over 90 excellent student papers and posters, whose creativity and scientific integrity help to keep all of us on our toes.



**Niancui Liu (Mrs. Gao) & Dudley Pinnock**

The program, though of course the most prominent part of the meetings, could not have been executed with such professionalism if it weren't for all of the excellent hard work of the local arrangements committee in selecting such a pleasant venue for the meeting at the Zhongnan Garden Hotel, and in developing such an enjoyable and memorable social program. Memories that I will always treasure include the view from the top of the Yellow Crane Tower, the 5k walk and run through the beautiful Wuhan Botanical Gardens, and the thoughtfulness of the organizers, who arranged for the sweat-drenched runners to have showers at a nearby hotel.



**Trevor Jackson 'Premier Danseur'**

The entertainment at the barbecue, highlighted by the performance of SIP's very own Trevor Jackson and his delightfully ambiguous dancing partner will be forever etched in most people's memories (for those who weren't lucky enough to be there, see photo above), as will the glorious sounds of the ancient bells that we heard at the Hubei Provincial Museum. And the banquet, where we feasted on an astonishing and delicious array of Chinese delicacies and enjoyed live music that ranged from Mozart to Puccini to traditional Chinese music to rock and roll, will go down as one of the best in SIP's history.



**Bells and performers at Hubei Museum**

Last, but not least, our gratitude goes to the many students who were the backbone of the local arrangements efforts. They made sure that the meetings ran smoothly, overcame many barriers to develop a meeting website, picked us up at the airport, translated for us and made us feel welcome. Their eagerness to help, their amazing energy (did any of them get more than a few hours of sleep that week?) and their always smiling faces are some of the nicest memories that I took home with me from Wuhan. Special thanks to Ms. Dongmei Han and Ms. Dandan Wu who worked tirelessly – for months before the meetings and during the meetings. Meeting all of these students was a privilege and a delight.

#### **Thank you to the outgoing Council**

The SIP Council of 2004 to 2006 did an extraordinary job of overseeing the meetings in Alaska and China, and of keeping SIP responsive to its members. I want to thank Trustee Alejandro Bravo, whose persistence in lobbying Council for increased funding of meetings and speakers has helped the quality of our meetings to increase every year. Trustee John Vandenberg kept the Council focused with his knowledge of SIP traditions, members and by-laws. Suzanne Thiem, as Treasurer (for two consecutive terms!) kept the Society's finances in immaculate order (admitting that she wishes her own checkbook was as

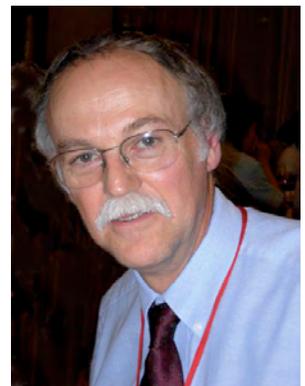
well maintained) and Peter Krell, as Secretary, was tireless in making arrangements, keeping track of decisions, and making sure that everything got done. Harry Kaya, the SIP Past President shared his experience, his wisdom and his ideas generously with us all; he is an invaluable resource and a wonderful friend to SIP. And of course, our outgoing President, Just Vlak, will continue on Council as Past President for the next two years. I look forward to Just's continuing input, his wonderfully dry sense of humor and his devotion to SIP.



**2004-2006 SIP Council**

#### **Special thanks to special committees**

For a small scientific society, SIP has a large global impact, thanks to the efforts of many committed members who volunteer for a wide variety of efforts. I want to start my thanks here with Stephen Wraight, who for over 10 years has nurtured one of the most important aspects of the Society – our student awards program. Steve had the vision to see that we needed to do more to attract young scientists to the Society, and the commitment to create a vibrant student awards program that has grown, year after year. After so many years of tireless effort, Steve has asked to “retire” from his role as Chair of the Awards and Student Contest Committee (the chair will pass into the capable hands of long-time committee member, Andreas Linde). Steve deserves our recognition and heartfelt thanks for his service to the students and to SIP.



In a related effort, Paresh Shah deserves accolades for being so effective in pulling together the first ever Lomer Memorial Award, which this year went to Drauzio Rangel of Brazil. This award, which honors the memory of SIP member Chris Lomer, supports invertebrate pathologists in the developing world by providing funding to attend SIP meetings. For more information on SIP Memorial Awards, visit the SIP website at [www.sipweb.org](http://www.sipweb.org) and click on "Memorials".

How many of you have made use of the "Abridged Glossary of Terms Used in Invertebrate Pathology" that is now on-line at [www.sipweb.org](http://www.sipweb.org)? This is a wonderful new resource, and we owe its existence to the efforts of chair David Onstad and the members of the Publications Committee, who have worked diligently on this labor of love for many months. It is currently available to SIP members only, but at this summer's Council meeting, we all agreed that it was too valuable to keep to ourselves. Look for it soon on the public side of the SIP website.

The glue that keeps SIP together between annual meetings is our newsletter, the quality of which we should all take pride in. We have much to thank editor Leellen Solter, and assistant editors Gernot Hoch and Vince D'Amico for. I am sure that Lee would tell you that the best way to show your thanks is by contributing to the newsletter with your letters, opinion pieces, book reviews and photographs. And speaking of "glue", our Executive Secretary Peg Rotstein has continued to play a critical role in keeping our Society running smoothly. We are lucky to have in Peg a unique combination of an effective Executive Secretary who is also a devoted, long-time member of SIP. It is always a pleasure to work with her, as many of you already know.

#### **Thank you to donors**

The quality of our meetings is insured every year through the generosity of donors from the world of microbial control, transgenic plant companies, universities, research institutes and scientific publishing houses. This year, we want to give our thanks to these organizations, whose support helped to make the Wuhan meetings a great success: AgraQuest, Bayer Crop Science, Bayer BioScience, Becker Microbials, Certis USA, Dow AgroSciences, Fujian Pucheng Bio-Pesticide, Monsanto, National Natural Science Foundation of China, Pioneer, State Key Laboratory of Agricultural Microbiology at Huazhong Agricultural University, State Key Laboratory of Virology at the Wuhan Institute of Virology, Syngenta, Taylor and Francis Ltd. and Valent Biosciences.

#### **Welcome to the new Council**

I am looking forward to working with the incoming Council for the next two years. They include Vice-President Mark Goettel, Treasurer Jimmy Becnel, Secretary Jenny Cory, and Trustees Bryony Bonning, Jørgen Eilenberg, Zhihong Hu and Patricia Stock. I know that they will join me in inviting you to contact us at any time with questions, concerns or ideas about SIP. I can be reached at [gelernter@paceturf.org](mailto:gelernter@paceturf.org), and the email addresses of our other Council members can be found on the SIP website.

#### **Some important decisions**

Future columns will deal in more detail with new business, but there are a few changes that you should be aware of now. First, after two years as Trustee of SIP, Bonifacio Magalhaes' busy schedule unfortunately did not permit him to complete his four-year term. We will miss Bonifacio's input, and thank him very much for his service to SIP. To fill this vacancy, Council voted to ask Dr. Bryony Bonning to serve as Trustee from 2006 to 2008. I am very happy to say that Bryony has accepted this responsibility. Her dedication to SIP and her high standards for excellence will be an asset to the Society, and I look forward to working with her.

At the SIP's annual business meeting, members unanimously approved an amendment to the by-laws that will introduce electronic elections of SIP officers in 2008. This measure will make voting easier and more accessible, and will hopefully result in more participation in future elections. Thanks to Past President Jim Harper for his perseverance in putting this amendment together, and for his thoroughness in outlining all of the details.

How can we make SIP more attractive to students? What can we do to support them and to keep them involved? The role of students within SIP received a big boost when Trustee Patricia Stock volunteered to oversee the Student Affairs Committee. Please contact her with your ideas at [spstock@ag.arizona.edu](mailto:spstock@ag.arizona.edu). And Trustee Joergen Eilenberg also wants your input in his oversight of the SIP website. Please contact him ([jei@kvl.dk](mailto:jei@kvl.dk)) with your suggestions on how [sipweb.org](http://sipweb.org) can be more informative, more current and more useful.

**Help make SIP even better**

Do you have a pet peeve, an idea for recruiting new members or a suggestion for new services that SIP might offer? If you are among the many who believe that SIP serves a unique function in today's world, I invite you to contact me ([gelernter@paceturf.org](mailto:gelernter@paceturf.org)) to volunteer your ideas and energy to one of the existing committees, or to a new project. It is a good thing to do, and you will enjoy it as well.

**Finally**

All of our senses were rewarded in Wuhan, from our eyes, to our ears, to our stomachs, our funnybones (senses of humor), our minds, and perhaps most of all our hearts. So thank you again, to the meeting organizers, to everyone who attended the Wuhan meetings, and to everyone who works to make SIP the best and the most enjoyable of all professional societies. Your efforts are deeply appreciated.

*Wendy Gelernter*

**MINUTES OF THE GENERAL BUSINESS  
MEETING  
AUGUST 31, 2006  
WUHAN, CHINA**

The meeting was convened at 10:45 am with about 115 attendees.

Wendy Gelernter volunteered to be the recording secretary and the minutes were submitted by Peter Krell, SIP Secretary.

**Minutes**

The Minutes of the 2005 General Business Meeting in Alaska, prepared by the Secretary, Peter Krell, were published in the November 2005 Newsletter. Peter Krell moved that the minutes be accepted as published, seconded by Wendy Gelernter. Motion was unanimously accepted.

**President's Report**

The President, Just Vlak highlighted some achievements over the last year, as expanded in his full report in this Newsletter. He acknowledged and thanked the organizers of the past three meetings in which he was involved, in particular Heikki Hokkanen (Helsinki, 2004), Kelli Hoover (Anchorage, 2005) and Ziniu Yu (Wuhan, 2006). Thanks were offered also to division chairs, committee chairs, Peg Rotstein, Steve Wraight, Awards Committee and, in particular to Bob Granados. The President

recognized the loss of deceased members Gernot Bergold and Sophie Jakowska. He acknowledged the contributions of the outgoing council, Suzanne Thiem (Treasurer), Peter Krell (Secretary) and Harry Kaya (Past President), Trustees Alejandra Bravo and John Vandenberg as well as the Division Officers who were stepping down. Just introduced the new council members, Mark Goettel (Vice President). Jimmy Becnel (Treasurer) Jenny Cory (Secretary) and Trustees Zhihong (Rose) Hu and Jørgen Eilenberg. The President made a special point of recognizing our corporate sponsors for both their continuing sponsorship and participation in the meeting.

Peter Krell moved that the President's Report be accepted, seconded by Wendy Gelernter. The motion was unanimously accepted.

**Treasurer's Report**

Suzanne Thiem presented the Treasurer's Report as detailed in this Newsletter. Total revenues for 2005/2006 were \$176,631 and total expenses were \$191,297 for a net loss of \$14,666. The fund balance as of the end of April 2006 was reported as \$170,888. Members were encouraged to take the electronic newsletter to help reduce some expenses.

The Auditors Report was presented by James Becnel and Jeff Lord. They reported that the Society seemed to be on sound financial footing. They also acknowledged that the Society has spent down some of the overall assets primarily, and at the discretion of the membership, for student awards and speaker support.

Just Vlak moved that the Treasurer's Report and Auditor's Report be accepted, seconded by Leellen Solter. Motion was unanimously accepted.

**Nominating Committee Report**

The Nominating Committee Report was given by Jim Harper on behalf of Bob Granados, the Chair of the Committee. He reviewed the nominations activities of 2006 that lead to the elections of new 2006/2007 Officers.

**Electronic Voting Amendment**

The Electronic Voting Amendment was presented by Jim Harper. He reminded the membership that this amendment to allow for electronic voting was posted in the November 2005 Newsletter 38(3) page 31. Peter Krell moved to accept the Electronic Voting amendment as outlined in the Newsletter,

seconded by Suzanne Thiem. Motion was unanimously approved.

#### **Founders' Lecture Committee**

Dudley Pinnock, Chair of the Committee, in his report, solicited suggestions for future lecturers and honorees to add to the ongoing list being maintained by the Committee.

#### **Membership Committee**

Juan Luis Jurat-Fuentes reported on behalf of Ray Akhurst, Chair of the Committee on several suggestions the Committee made for attracting new members. He also fielded suggestions from the audience including the following: increase membership reminders, provide an option for direct bank debit/autopayment of membership fees, establish local dues collectors in areas where membership could more easily be paid in local currency and that membership forms and posters be available at related meetings to advertise for membership in the SIP.

#### **Student Affairs Committee**

Peter Krell reported for Christina Campbell, the outgoing Chair of the Committee. Peter recognized the efforts of Christina Campbell and reaffirmed the importance of students in the Society's governance. As Christina is stepping down as Chair, a new Chair will need to be elected.

While he had the floor, Peter Krell appealed to the membership to check their membership entries in the Directory to ensure their contact data is current. He also encouraged members not already in the directory to add their names to it so that it would be easier to contact them if needed.

#### **Meetings Committee**

Mark Goettel reported on behalf of the Committee that they are in contact with potential organizers for a meeting in Europe (United Kingdom) for 2008 and for 2009 that they recommended to have the meeting in North America. He also reported on a Draft Meetings Guide that would be used to assist future local arrangements committees.

#### **Wuhan 2006**

Sun Ming reported on the Wuhan meeting, indicating that things were going smoothly with exciting scientific presentations and entertaining social events. At the time of the Business Meeting there were 285 total delegates from 32 countries; 110 from China, 175 from outside China and 80 delegates going on post excursion tours. The presentations included 311 abstracts, 188 oral

presentations and 123 posters. To date, local revenues were reported as 666,000 RMB; and local expenses of 650,000 RMB

#### **Quebec City (2007)**

Jean-Louis Schwartz reported on the plans for the Aug 12-16 SIP meeting in Québec City, Canada. They have hired Lucie Lévesque, a local, experienced and efficient freelance conference organizer (formerly with the Canadian Biocontrol Network) to assist in organizing the meeting. Much of the meeting will be on the Université Laval campus, which is very near to the old French town of Québec City. A local arrangements committee and a program committee have been formed. Several arrangements regarding the meeting and social aspects have already made. He then showed a short colourful movie portraying the attractions of Québec city including the easy access from Montréal, a common North American hub for many international airlines. He then invited the members to come and see for themselves what Québec has to offer. "Bienvenue à Québec"!

#### **Division Reports**

##### **Bacteria Division**

Christina Nielsen-LeRoux reported for the Division, indicating that they supported five symposia this year. Sun Ming was elected as a new member at large.

##### **Fungus Division**

Jørgen Eilenberg reported that this Division organized one symposium this year. Three new officers were elected; Rosalind James (Chair-Elect), Helen Roy (Secretary), Kerstin Jung (Member at Large). Also, Drauzio Rangel is the Student Representative.

##### **Microbial Control Division**

Michael Brownbridge indicated that the Division funds are \$700 less than last year, but that the treasury is still in good shape. Two symposia were sponsored this year. In addition they organized a Products workshop in which eight companies participated. A new officer, Sean Moor as a Member-at-Large, was elected and the Student Representative is Marcos Faria.

##### **Microsporidia Division**

Gernot Hoch reported on behalf of the Division that the new Chair of this Division is Regina Kleespies,

new Chair-Elect is David Oi, new Secretary is Dörte Goertz. and new Member-at-Large is Julia Sokolova. Thomas Kolling is the Student Representative. The Division organized one symposium for this year.

### Nematode Division

Parwinder Grewal reported that this Division sponsored two symposia this year. Furthermore the members proposed a one-day nematode/bacteria conference every other year to be held in conjunction with the SIP meetings.

### Virus Division

Jim Maruniak, Chair of the Division, indicated that the new Chair is Johannes Jehle, Chair-Elect is Bryony Bonning, Secretary-Treasurer is Rose Hu and Member-at-Large is Rollie Clem. The Student Representative is Jondavid de Jong.

### Other Business

Just Vlák acknowledged the Tellers Committee, Martin Erlandson and Lorraine Braun for their help in counting the ballots for the election. He also acknowledged Jeroen van Rie and Jørgen Eilenberg for agreeing to be proxies during the Council Meeting. He thanked both James Becnel and Jeff Lord for, on relatively short notice, reviewing the Treasurer's Report and preparing the Auditors Report.



...ready, set, go!

The gavel and book of rules were then ceremoniously transferred by Just Vlák to Wendy Gelernter as the new President of our Society.

The meeting was adjourned 12:30 pm.

## 2006 DIVISION MINUTES

### Bacteria Division

Monday, August 28, 2006, 20:00

Zhongnan Garden Hotel, Wuhan, P.R. China

Approximately 20 Division members attended the meeting.

Approval of 2005 business meeting report and matters arising: The 2005 business meeting report was approved.

The Chair (Christina Nielsen-LeRoux) mentioned the Division web site improvement and the possibility for creation of the Division sub-committee for Asia (including South East, Middle East and Far East). Marianne Carey suggested announcing the SIP and Division membership information at the Bacteria 1 Contributed Papers presentations (which was done). Division members would like to continue publishing the meeting symposia in the Journal of Invertebrate Pathology (Christina Nielsen-LeRoux, Juan Ferré, Jean-Louis Schwartz and Raffi Aroian).

**Symposia** organized, or co-organized by the Division in 2006 were:

*Monitoring and managing for Bt-resistance: The challenges for the next decade.* (Cross-Division) Juan Ferré, organizer

*Genetics and characterization of mechanisms of Bt-resistance.* Juan Ferré and Bill Moar, co-organizers  
*Bacteria in Bio-control in Asia: Natural and biotech strains.* Ray Akhurst, organizer

*Bt-performance enhancement.* Yu Cheng Zhu, organizer

*Nematodes and bacteria: from pathogenicity to mutualism.* (Cross-Division) Raffi Aroian, organizer

### Chairperson's report, including report on SIP Council meeting

The chair announced that the short report on the 2006 business meeting would be sent out to Division members in October. The chair encouraged members to submit science-related articles (a few sentences) to the SIP Newsletter.

Members pointed out that the Chris Lomer memorial fund for developing countries needs more clear application instruction.

At the Council meeting, council members recognized needs of new ideas for symposia to attract members and non-members to attend the SIP meeting. The council would like each Division to post their business meeting report on the SIP web site.

An abridged glossary of terms used in invertebrate pathology has been posted on the SIP web site

(members only). Opening to public was suggested and the chair said the change will be made.

Betty Davidson has updated history of the Society.

Travel awards: The chair reported that the Division had contributed \$500 for a student to attend the 6<sup>th</sup> Pacific Rim Conference on the Biotechnology of *Bacillus thuringiensis* and its environmental impact (November 2005). This year two Division student travelers were awarded (\$500 each) for the merits of their work. The Division received \$750 for general fund and \$1,000 for travel grant from the Society. The Chair hinted that if the Division organizes Cross-Division symposium, it will receive an additional \$500.

### Financial report

The treasurer, Hyun-Woo Park, reported that at the end of April 2006, the Division had 101 members, which represents an increase in membership over last year. Members commented that sending out the reminders or switching over to the automatic withdraw option may help these figures.

May 2005 – April 2006

#### Income:

Membership fees:	\$440
Income from the Society:	\$1500

#### Expenditures:

Student awards:	\$ 2000
Net income:	\$60

<b>Balance</b>	<b>\$937</b>
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### Election of officers

Member-at-Large- Ming Sun was elected unanimously.

Bacteria Division officers:

-Chair: Christina Nielsen-LeRoux (2005–2007)  
Institut Pasteur (Paris) and 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, USA,  
Email: hyun-woo.park@fam.u.edu

-Member-at-Large: Luke Masson (2005–2007)  
Biotechnology Research Institute, NRC, Montreal,  
Canada, Email: luke.masson@nrc.ca

-Member-at-Large – Ming Sun (2006 – 2008), Huazhong  
Agricultural University, Wuhan, China, Email:  
m98sun@mail.hzau.edu.cn

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

### Committees and representatives

-Symposia Committee (Christina Nielsen-LeRoux,  
Brian Federici and Jean-Louis Schwartz)

-Website Committee (Neil Crickmore, Jean-Louis  
Schwartz and Colin Berry)

-Student Travel Award Committee (Hyun-Woo  
Park, Marianne Carey and Juan-Luis Jerat-Fuentes)

-Toxin Nomenclature Committee (Neil Crickmore)

-SIP Student Award Committee representative  
(Peggy Wirth)

-SIP Fundraising Committee representative (Jeroen  
Van Rie)

-SIP Membership Committee representative (Neil  
Crickmore)

-SIP Student Affairs Committee representative (to  
be announced)

### Symposia for SIP 2007

The Bacteria Division will organize these  
symposia:

*Mode of action.* Jeroen Van Rie and Juan Ferré, co-  
organizers

*New toxin and strain selection for development.* Ole  
Skovmand and Trevor Jackson, co-organizers

Cross-divisional symposium:

*Multi-tropic interactions.* Jean-Louis Schwartz to  
be Bacteria Division organizer

### Other Business

**Meetings.** Neil Crickmore suggested that the  
meetings for *Bacillus thuringiensis* use in Europe  
should be held more often. See [www.cost862.com](http://www.cost862.com)

**Membership.** It was suggested to increase the  
Division membership fee to \$5 (Juan Ferré) or \$10  
(Marianne Carey). Jean-Louis Schwartz suggested  
advertisement of the SIP membership to get more  
members and providing one year of free  
membership to new members for promotion. Juan  
Ferré suggested waiting until we get the numbers of  
applicants for the next year.

### Travel grants

It was suggested that the announcement of travel  
awards should be made as early as possible on the  
SIP website so that students can have enough time  
to prepare and apply for it. In that regard, Juan  
Ferré suggested extending deadline for application.  
Also, it was suggested that the travel grant should  
cover the entire expense of the travel.

**Student issues**

It was suggested that a student section should be created on the SIP website. Ole Skovmand suggested that the Society should provide students helpful information through web site (for example, web links and job announcements). Jean-Louis Schwartz suggested the Society to try harder to approach students. Jean-Louis Schwartz and Jeroen Van Rie suggested including student representatives in the SIP Council meeting.

Submitted by:

*Christina Nielsen Le-Roux (Chair)*

*Hyun-Woo Park (Secretary)*

**Fungi Division**

**Monday, August 28, 2006, 20:00**

**Zhongnan Garden Hotel, Wuhan, P.R. China**

**Current Officers:**

Chair: Jørgen Eilenberg 2004-2006

Chair-Elect: Fernando Vega 2004-2006

Secretary-Treasurer: Rosalind James 2004-2006

Member-at-Large: Sunday Ekesi 2004-2006

Member-at-Large: Ming Guang Feng 2005-2007

**Membership**

The number of members has been stable over the last 3 years, currently the total is 118.

	2004/2005	2005/2006	2006/2007
Regular	100	108	107
Students	13	12	11
Total	113	120	118

**Finances**

Total revenue: \$308

Fund transfers from general fund: \$1500

Total expenses: \$1000

Net revenue: \$808

Member fee 2007: Currently 2 USD

Allocated for student travel grant(s): \$750

Non-SIP member symposium: \$1000

Cross-divisional symposium: \$500

Don Roberts made a motion that the Division dues be increased to \$5.00 (US). Mike Brownbridge seconded the motion. Discussion followed regarding the purpose of the increase. It was suggested that the increase be used for student travel awards because the Society funds are not permanent. The vote yielded 11 for, 6 against, and 1

abstaining. The Secretary was asked to check the By-Laws to make sure the Division can regulate its own dues.

**SIP Annual Meeting in Wuhan 2006**

Fungus Division Symposium: *Ecology of Entomophthorales*. (Ming Guang Feng, Organizer)

Invited speakers were Judith Pell, Ann Hajek, Ming Guang Feng and Jørgen Eilenberg.

Contributed papers: 23, in three sessions. Posters: 21. In addition, several papers for the MCD as well as for cross-divisional symposia included fungi.

Roy Bateman expressed concern that the Symposium Travel Awards should not be given to people who are non-members only because they had forgotten to register and pay dues. The Travel Award should be for people who are not regularly attending members in an attempt to bring them into the Society. Jeff Lord expressed concern that invited speakers will be charged non-member registration fees, and Mark Goettel said that the organizing committee usually waives the registration fee for these invited speakers.

**Web Site Development**

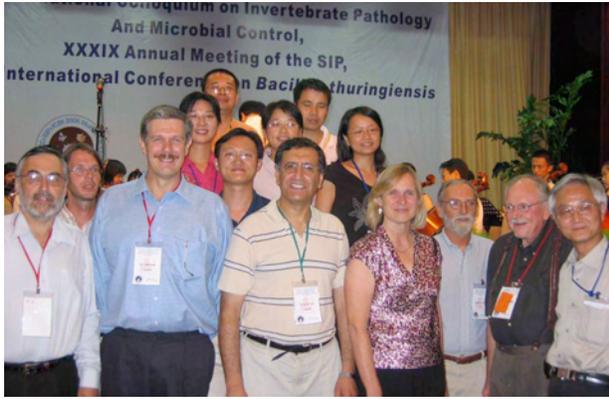
A website was set up during this year by Paresh Shah, Rothamsted, UK, with support from Peg Rothstein. Special thanks was given to Paresh Shah for his assistance with the web page.

**CD**

Charlotte Nielsen, KVL, initiated work to compile a set of slides on insect pathogenic fungi for a CD or to be uploaded onto the website. At the Anchorage meeting, the Division discussed concerns about copyrights, an issue which needs to be resolved. Charlotte Nielson suggested that people only send in images that have no copyrights, and reiterated that the photos will only be available for Division members. She has received only 15 photos and asked how to proceed. Roy Bateman and Dietrich Stephan volunteered to help Charlotte approach people for more photo donations. The Chair appointed Charlotte, Roy, and Dietrich as a committee to put together a slide project.

**Glossary**

The Division was happy to recommend Richard Humber and Vladimir Gouli to help with review the Insect Pathology Glossary.



**Fungus Division at Banquet**

### Fungus Genome Projects

The Chair and Secretary presented reports from two people who are working on genomes of entomopathogenic fungi, but who could not attend the meeting. Nemat Keyhani, et al., University of Florida, USA, reported: 'The Hypocrealean Project which included sequencing both *Metarhizium* and *Beauveria* was not funded this time around. I might, however, resubmit the *Beauveria* sequencing project to NSF in January. Concerning genome resources: two papers describing EST datasets from *Beauveria bassiana* from my lab are in press in the journal Microbiology and should be out in the September or October issue.' Katherine Aronstein, USDA-ARS, TX, USA, reported: 'The draft sequence of *Ascosphaera apis* genome was produced using a Whole Genome Shotgun (WGS) approach by sequencing both ends of the inserts from a plasmid library prepared by Baylor Sequencing Center. A total of over 156 Mb of high quality bases was produced and assembled into contigs that totaled 21.6 Mb in length, which represents about 7x fungal genome coverage. The two *A. apis* isolates used in the genome sequencing project have been deposited in the USDA-ARSEF collection (Murray et al., 2005). The term date of this project was extended for another year to finish sequencing of the second *A. apis* mating type isolate.

Fernando Vega will begin as chair at the end of this meeting, but he was not able to come to Wuhan, so he sent a greeting that was read at the meeting. He requested members to send him ideas on symposia for the next SIP meeting, but also symposia ideas for the International Congress of Entomology to be held in July of 2008 in Durban, South Africa.

### Enquiry on fungus isolate

Jørgen Eilenberg, KVL, Copenhagen, Denmark, et al. asked members about data on one specific isolate of *Metarhizium anisopliae*, Ma43. The aim is to collect

information about this isolate, which has been important in many studies. Responses from members were obtained and the work is in progress.

### New Officers

Chair-Elect: Rosalind James

No other nominations were made, and Rosalind was voted in as the new Chair-Elect.

Secretary: Helen Roy

No other nominations were made, and Helen was voted in as the new Secretary.

Member-at-Large: Kerstin Jung

No other nominations were made, and Kerstin was voted in as the new Member-at-Large.

Student representative: Drauzio Rangel

No other nominations were made, and Drauzio was voted in as the new student representative.

### Symposia Suggestions for 2007

-*Bee pathology* (fungi plus/minus other pathogens) (Rosalind James and Annette Bruun Jensen)

-*Control of wood boring insects with fungal pathogens* (Ann Hajek)

-*Invertebrate immune responses to microbial challenges* (Norman Ratcliffe)

-*Current situation on the biological control of turfgrass insects* (Guy Bélair and Julie Dionne)

Cross-Divisional Symposium. Proposed Speakers:

-*EPNs on turfgrass insects* (to be confirmed- Parwinder Grewal)

-*Fungi for the control of turfgrass insects: An overview* (confirmed, Rick Brandenburg)

-*Virus for the control of turfgrass insects: Current situation* (confirmed, Callie Prater)

-*EPNs with other control agents, particularly synergistic combinations* (confirmed, Albrecht Koppenhöfer)

-*Biological control on turfgrass insects in Canada-current situation* (confirmed, Louis Simard and Guy Bélair -)

### Other Business

The Chair expressed concern that too much overlap exists between FD and MCD. For example, many papers at SIP meetings deal with biocontrol using fungi. The Chair asked if our division should make a greater effort to attract people working with insect pathogenic fungi in areas other than biocontrol, for example:

- Fungi on honey bees
- Fungi on aquatic insects
- Fungi producing biomedicines (*Cordyceps*)

Roy Batemen requested that people please renew their memberships, and announced that he had membership forms.

Mark Goettel had a question from the Society Organizing Meeting for members of the Division. Do people mind if the Plenary Session overlaps with Division talks? Should the meeting start each day with a plenary session? Also, do we want more cross-divisional symposia, or more plenary sessions? These ideas were discussed. It was generally expressed that Plenary sessions are well liked, and no other sessions should be concurrent with Plenary sessions.

The meeting was adjourned.

Submitted by  
*Jørgen Eilenberg, Chair*

**Microbial Control Division**  
**Monday, August 30, 2006, 20:00**  
*Zhongnan Garden Hotel, Wuhan, P.R. China*

Meeting began at 20.00, Chaired by Michael Brownbridge

Agenda items.

1. MCD Business
2. Election of new officers
3. Student travel awards
4. Symposia topics for 2006
5. Other Business

#### **MCD Business**

Motion proposed to accept the minutes from the 2005 MCD Business Meeting in Anchorage, Alaska. Passed unanimously.

#### **Financial Report**

Status of MCD finances summarized. Incoming revenue from membership dues, t-shirt sales, and granted by the SIP Council to support travel awards for student members or symposia participants. Outgoing to support student travel and money not expended on travel returned to Council. Summary prepared by Peg Rotstein and available in previous issues of the Newsletter; reported to MCD members by Michael Brownbridge.

In general, the MCD finances are in good order, although there was a net loss in the MCD account overall due largely to the (travel) funds that were returned to SIP

<b><u>REVENUE</u></b>	
Membership Dues	\$ 376.00
MCD T-shirt*	\$ 60.00
<b>Total Revenue</b>	<b>\$ 436.00</b>
<b><u>EXPENSE</u></b>	
Speaker Awards	\$ 1,160.00
Student Travel Award	\$ 1,500.00
<b>Total Expense</b>	<b>\$ 2,660.00</b>
<b>Net Revenue Before Fund Transfers</b>	
	<b>\$(2,224.00)</b>
<b><u>FUND TRANSFERS FROM GENERAL FUND</u></b>	
-	
Fund Transfer for Speaker Awards	\$ 1,000.00
Fund Transfer for Student Awards	\$ 500.00
<b>Total Fund Transfer</b>	<b>\$ 1,500.00</b>
<b>Net Revenue After Fund Transfers</b>	
	<b>\$ (724.00)</b>

<b>FUND BALANCE</b>		
<b>4/30/2005</b>		<b>4/30/2006</b>
\$	6,257.33	\$ 5,533.33

<b><u>Membership Dues</u></b> (previous; current)	<b><u>2005</u></b>
Microbial Control (171@\$2; 188@\$2)	\$ 342.00

coffers. Membership dues were up, and overall membership numbers increased from 171 in 2005 to 196 in 2007 – approximately half of the SIP membership. Let's keep that upward trend going! \$3,000 of the fund balance has been invested in a 6 mo CD to generate interest income on MCD funds for re-investment in the Division

Motion to accept the financial report as presented. Passed unanimously.

#### **Election of New Officers**

Thanks to Vince D'Amico who served for the past 2 years and is now rotating off the MCD Executive Committee. Two positions up for election: Member-at-Large and the newly created post of Student Representative.

-Sean Moore (SA) had been nominated for the position of Member-at-Large. Elected unanimously. Term from 2006 through 2008.

-Marcos Faria (EMBRAPA, Brazil; currently at Cornell University), nominated by Drauzio Rangel; seconded by Roy Bateman. Elected unanimously. Term from 2006-2007.

### Student Travel Awards

One student travel award was made this year to Patricia Hernandez-Martinez for presentation of the paper 'Spodoptera exigua selection using a marginally toxic Cry protein provided a wide range of toxin resistance'. A cash award equivalent to US\$500 will be given at the banquet to help cover costs of travel to the 2006 meeting.

Society-wide, SIP needs to make a greater collective effort publicizing the student travel awards 'scheme', and to encourage wider student participation. More effort is needed to get submissions on work done in the 'applied' side of insect pathology, i.e., microbial control(!). Information will be presented via traditional SIP channels for the 2007 meeting, but additional websites will be targeted as well. Paresh Shah, MCD Chair Elect has prepared a list of possible sites to publicize the awards, as well as the 2007 meeting in Quebec.

### Symposia Topics for 2007

Two MCD symposia were included in the 2006 program. An excellent session entitled 'Novel approaches for dealing with difficult data' which was organized by Surendra Dara (who unfortunately was unable to make the meeting in China) provided some excellent insights into data handling and publication through four highly relevant and excellent presentations. The second was a very topical cross-divisional session, co-sponsored with the Bacterial Division and entitled 'Monitoring and managing for *Bt* resistance: the challenges for the next decade', and was organized by Juan Ferre and Carlos Blanco.

A maximum of two MCD-sponsored symposia will be on the program of the 2007 SIP meeting. Symposium topics with strong cross-divisional appeal are being strongly encouraged. Four potential topics were presented, although it should be noted that the following list does not exclude additional submissions from the membership.

- *Current situation on biological control of turf grass insects* – Guy Belair and Julie Diome. This already has a well-developed program and speakers, and has potential cross-divisional appeal with at least two other Divisions.
- *Microbial control of orchard pests* – Lerry Lacey. A tentative list of speakers has also been proposed; has cross-divisional appeal.

- *Greenhouse pest management* – Steve Wraight. Relevant, particularly with the global increase in this non-traditional form of agriculture.
- *Managing/Handling (?) Intellectual Property* – Wendy Gelernter. This is something increasingly faced by researchers (in academia and industry), particularly as there are increasing pressures to generate 'returns' on research investment.

### Other Business

Fund-raising ideas? None forthcoming, but we do need to think outside the proverbial box to raise additional income to support any expansion of MCD activities.

Discussion on raising dues from \$2 to \$5 (perhaps with a preferential rate for students of \$2). Some voiced concern that raising to \$5 would discourage members, so no motion proposed and membership dues will remain at \$2 for 2006-07.

Ann Hajek announced the availability of a new USDA publication, which she co-authored, 'A catalogue of introductions of pathogens and nematodes for classical biological control of insects and mites'. Ann kindly distributed a few copies that she had brought with her to the meeting.

The new *Btk* standard provided by Valent BioSciences is now available for distribution via Gary Benzon's lab. Any members wanting samples should check the SIP website for details.

The meeting was adjourned at 21.00, in time for the MCD-sponsored Workshop 'New Products and Upgrades for Microbial Control: an Industry Update', which featured eight presenters from six countries.

Respectfully submitted,  
Li Zengzhi, MCD Secretary  
Michael Brownbridge, MCD Chair

**Microsporidia Division**  
**Monday, August 28, 2006, 20:00**  
**Zhongnan Garden Hotel, Wuhan, P.R. China**

The annual business meeting of the Microsporidia Division was attended by six Division members, among them, Division officers R. Kleespies and G. Hoch. The session was chaired by G. Hoch.



Microsporidia Division members at the Banquet

The minutes of the 2005 Division Business meeting were accepted.

### Chair Report

G. Hoch gave the Chair's report on the Division: The current officers are Chair Gernot Hoch (2004 to 2006), Chair-Elect Regina Kleespies (2004 to 2006), Secretary-Treasurer Carlos Lange (2004 to 2006), Members-at-Large Michael McGuire (2004 to 2006) and Susan Bjornson (2005 to 2007). The membership increased from 45 in 2005 to 54 in 2006 (49 regular and emeritus members, 5 students). The Division's fund balance at the end of the fiscal year, 4/30/2006, was \$2,169.

### 2006 Travel Awards

For the 2006 SIP meeting, the Division will spend \$750 for a student travel award. Thomas Kolling will receive the award for his paper *Infection experiments with different spore types and different microsporidian isolates of Lymantria dispar L.* One invited speaker for the Division's symposium *Microsporidia in silk moth* (convenors: G. Hoch and L. Solter), Liu Ji-Ping of South China Agricultural University will be supported with \$500. The second invited speaker, S. S. Rath of Central Tasar Research and Training Institute, India had to cancel his attendance shortly before the meeting. The total amount of \$1,250 for student award and symposium speaker will be transferred from the SIP general fund.

### 2007 Travel Awards

G. Hoch reported from the SIP council meeting that \$1,000 will be available for a division symposium in order to invite non-member symposium speakers to the SIP 2007 Meeting; additionally, \$500 can be provided for the organization of a cross-divisional symposium. Moreover, each division will receive \$750 for student travel awards.



Prof. Liu Jiping treated the Microsporidia Division to a tour of the silkworm research lab at the Hubei Academy of Agricultural Sciences

Procedures for the Division student travel award were discussed. Lee Solter, chair of the committee for this award agreed to continue in this position next year. It was agreed that the selection of the award winner will be as follows: All applications must be prepared according to the instructions published in the SIP Newsletter and are sent to the Chairperson of SIP's Student Awards Committee. He/she forwards them to the Division Chairperson. Oral presentations will be automatically entered in the competition for the Martignoni award. The Division Chair forwards the eligible applications to L. Solter and her committee. They report the decision to the Division Chair who informs the Chair of SIP student awards committee to coordinate the selection with the Martignoni award and other Division awards.

It was unanimously agreed that the Division will give at least one student travel award at \$500 for an oral or poster presentation at the SIP 07 Meeting, depending on number and quality of applications. If necessary, money from the Division fund will be added to the \$750 from the SIP general fund. Means of making the award more publicly known were discussed, such as announcing the award on the SIP 07 Meeting webpage or e-mail to all Division members.

### Election of Officers

Elections of new officers were held. G. Hoch reported that a nominating committee (A. Linde, J. Becnel, R. Wegensteiner) appointed by the Division Chair nominated the following candidates: Chair-Elect David Oi, Secretary-Treasurer Dörte Goertz, Member-at-Large Julia Sokolova. The

names of the candidates were published by e-mail to members prior to the SIP meeting. All three candidates were unanimously accepted.

Therefore, the new officers of the Division are:

Chair: Regina Kleespies, Germany (2006-2008)

Chair-Elect: David Oi, USA (2006 to 2008)

Secretary-Treasurer: Dörte Goertz, Austria (2006-2008)

Member-at-Large: Susan Bjornson, Canada (2005-2007)

Member-at-Large: Julia Sokolova, Russia (2006-2008)

### Student Affairs Committee

G. Hoch reported that the Chair of SIP's Student Affairs Committee, Christina Campbell, is stepping down from this position. Thomas Kolling (FH Eberswalde, Germany) volunteered to be the Division's student representative in this committee.

### Microsporidia Website

J. Becnel volunteered to take care of the Division website and to update the information. It was also discussed how the site could be made more attractive.

### Symposia/Workshops

In preparation of the SIP 2007 Meeting, R. Kleespies will soon send out a call to Division members for proposals for symposia and a Division workshop.

### Job Description for Division Chair

The job description of the Division Chair that had been prepared by G. Hoch and sent to the SIP President earlier this year will be revised by G. Hoch and R. Kleespies according to important points addressed in the business meeting as well as the Council meeting.

G. Hoch thanked the Division members and officers for the excellent cooperation in the past two years.

The meeting was adjourned at 21:40.

Respectfully submitted,  
*Gernot Hoch & Regina Kleespies*

**Nematode Division**  
**Monday, August 28, 2006, 20:00**  
**Zhongnan Garden Hotel, Wuhan, P.R. China**

The meeting was called to order by Parwinder Grewal (Chair). David Shapiro-Ilan (Chair-Elect) took the minutes because the Secretary/Treasurer was not present.

### Old Business

### Glossary



**Nematode Division members at the Banquet**

The Chair informed the Division that the SIP Glossary project was complete and on-line for members, and that new additions or revisions would be possible. During the discussion the question was raised whether the glossary (or part of it) could be made available to non-members so that everyone could have access and consistency in the literature could be facilitated. The point was raised that some of the definitions may be under copyright protection and could not be made fully public.

### 2006 Symposia

The Division participated in two symposia during the 2006 SIP meeting. A divisional symposium "Emerging Pest Targets for Entomopathogenic Nematodes (organized by David Shapiro-Ilan and Richou Han), and a cross-divisional symposium "Nematodes and Bacteria: from Pathogenicity to Mutualism (organized by Raffi Aroian and Parwinder Grewal).

### Student Travel Awards

No student travel awards were given for the 2006 meeting.

### New Business

The next meeting will be in Quebec City August 12-16, 2007.

### 2007 Symposia and Workshops

A cross-divisional symposium proposal (with the Microbial Control Division) focusing on microbial control of turf pests was submitted by Guy Belair.

A workshop on taxonomy and phylogeny was proposed by Patricia Stock.

A possible second workshop on commercial status was discussed with possible coordinators Richou Han and Ramon Georgis proposed.

### International Conference on Nematodes

The "First International Conference on Nematodes and Symbiotic Bacteria" to be held in conjunction with the 2007 SIP meeting was proposed and discussed. If approved, the conference would entail a full day (four sessions) of symposia focusing on fundamental aspects of the entomopathogenic nematode-bacterium complex. The conference was proposed by (and will be organized by) Harry Kaya, Parwinder Grewal & David Shapiro-Ilan.

### International Nematode Depository

The need for an international entomopathogenic nematode depository was discussed. The possibility of USDA-ARS serving as its center was proposed among other ideas.

### Fundraising

The issue of fundraising was raised. Possibilities of company donations (with approval from the SIP Endowment and Financial Support Committee) and t-shirts or hats were discussed.

Related to fundraising, the division unanimously voted to raise the annual divisional dues by \$5.00 (but keep the student fee the same).

### Student affairs:

Jayne Christen is no longer the student representative for the Nematode Division, and therefore a replacement must be found. No one was appointed or elected at the meeting.

### Elections

Current officers are:

Chair: David Shapiro-Ilan (2006-2008)

Chair-Elect: Albrecht Koppenhöfer (2006-2008)

Secretary/Treasurer: Ho Yul Choo (2006-2008)

Member-at-Large: Lerry Lacey (2006-2008)

Member-at-Large: James Campbell (2005-2007)

The meeting was adjourned.

Submitted by:

*David Shapiro-Ilan*



Parwinder Grewal and David Shapiro-Ilan present Harry Kaya with a complimentary copy of "Nematodes as Biocontrol Agents" edited by Grewal, Ehlers & Shapiro-Ilan; the book was dedicated to Professor Kaya.

### Virus Division

Monday, August 28, 2006, 20:00

*Zhongnan Garden Hotel, Wuhan, P.R. China*

The Virus Division Business Meeting was attended by 30 members. The meeting was chaired by the Chair James Maruniak, and the Chair-Elect Johannes Jehle recorded the meeting minutes.



Annual Virus Division Winetasting

### Summary of Virus Division activity at the Wuhan meeting 2006:

This year the Virus Division organized and sponsored two symposia. There were 48 contributed oral presentations 18 of which were student presentations. There were 19 poster presentations.

### Membership:

In 2006 there were 101 regular members and 10 student members. During the meeting in Wuhan,

James Maruniak and Basil Arif started an initiative to sponsor SIP/Virus Division student memberships for Chinese students attending the meeting.

#### **Student Travel Award of the Virus Division**

This year five applications were judged by the Division's Executive Committee. Because of the quality of the applications and with the funds provided by the council, three Virus Division Student Travel Awards were presented. This year's winners were: Clare Allen from Oxford Brookes University, Fang Xu from Wageningen University and David Carpentier from Oxford Brookes University.

#### **2006 Symposia**

As in the past, Symposia for this year's meeting were selected by discussion and voted at the 2005 Business Meeting. The Division continues to maintain an updated list of topics, from which Symposia titles are selected each year. This year the Virus Division organized a symposium on diseases of aquatic invertebrates and a symposium on field performance of insect viruses.

#### **Possible Symposia Topics for 2007**

A considerable amount of time was spent discussing possible topics for next year's symposia. The members of the Virus Division decided to organize two symposia. The topics chosen were *Cell Culture: Serial Passage Effects* and *Virus Production and Virus/Host Interaction*. A workshop on Polydnavirus genomics and taxonomy may be held during the business meeting 2007.

#### **Financial Report for Fiscal Year 2005**

The financial information was provided by the SIP Treasurer Suzanne Thiem and reported by James Maruniak.

#### **Revenue**

Membership Dues	\$1,132.00
SIP Fund Speaker Awards	\$1,000.00
SIP Fund Student Awards	\$ 500.00
Total Revenue	\$2,632.00

#### **Expenses**

Speaker Awards	\$1,500.00
Student Travel Awards	\$1,000.00
Total Expenses	\$2,500.00

Net Revenue	\$ 132.00
Fund Balance (4/30/2005)	\$3,143.00
<b>Fund Balance (4/30/2006)</b>	<b>\$3,275.00</b>

#### **Election of Officers**

One nomination, Bryony Bonning, USA, was received by the Chair for the position of Chair-Elect. Bryony was unanimously elected. One nomination, Zhihong (Rose) Hu, China, was received by the Chair for the position of Secretary/Treasurer. Rose was unanimously elected. One nomination, Rollie Clem, USA, was received by the Chair for the position of Member-at-Large. Rollie was unanimously elected.

#### **New Virus Division Executive Committee**

Following officers serve presently for the Virus Division: Chair: Johannes Jehle (Germany)  
Chair-Elect: Bryony Bonning (USA)  
Secretary/Treasurer: Zhihong (Rose) Hu (China)  
Members-at-Large: Madoka Nakai (Japan)  
& Rollie Clem (USA)

Reported by:

*Johannes Jehle*

## **ANNUAL REPORTS**

### **President's Report**

This my last address to the membership of the Society for Invertebrate Pathology after a two-year presidency and I would like to take the opportunity to thank you all for the confidence you gave me to carry out this honorable job. I think the Society is generally in good shape, healthy and vibrant, but improvements can always be made.

The most important of all the Society's activities has been the annual meeting. During my presidency I was responsible for the tail end of the Helsinki meeting in 2004, the 2005 meeting in Alaska and finally the International Colloquium here in Wuhan, China. Both the organizers and the Council are happy to see excellent attendance at all these meetings, which provides much hope and attraction to future organizers to hold these meetings and the knowledge that the attendance is fairly constant. I would like to thank the organizers of the three aforementioned annual meetings, Heikki Hokkanen, Kelli Hoover and Yu Ziniu for organizing them and we are looking forward to the ones ahead in Quebec (2007) and England (2008).

We are most happy to have this year's meeting in Wuhan, China under the leadership of Professor Yu Ziniu. Both Professor Yu and Professors Hu ZhiHong, Chair of the Program Committee, and Sun Ming, Meetings Secretary, have done a superb job in organizing the 2006 meeting in Wuhan. It is only the second SIP meeting in Asia, the first one being in Sapporo Japan, in 1989. It was also my personal wish to have this meeting here in China because I know many research colleagues in China are longing for closer interaction with our science and Society, but are unable to get to our meetings when they are held elsewhere. So, here, as we do every other year, the SIP has reached out to the international scientific community and this time has convened in Wuhan, China. In close consultation with the Program Committee and the various Division chairs, an excellent program has been established. I have been in China three times in preparation for this meeting and have felt their strong commitment to make it a memorable event. It is a first visit to China for many delegates and I hope they return with good memories. I also want to thank the support staff of the meeting organizers, in particular Han Dongmei and Wu Dandan, who almost single handedly dealt with the administrative details of this meeting. Thanks to Peg Rotstein, our Executive Secretary, the financial transfers went smoothly. The hospitality of the Zhongnan Garden Hotel is greatly appreciated. It is their first international meeting and they have done everything to make our stay as enjoyable as possible.

Returning to the Society's business, communication is a very important aspect of the Society and our Newsletter and our Website are nice and convenient conduits for exchanges of information. We need the help of all our committees and members to provide both the website and the Newsletter with information. More and more Divisions have assigned 'webmaster's to update their site. There could be a lot more news in the Newsletter and Lee Solter, Gernot Hoch and Vince D'Amico are happy to take more information for it. I thank Lee and the Newsletter crew for their enthusiasm in assembling the Newsletter.

The council is your governing body and holds its annual meetings during the conferences. This time, it was a special one, held in a Chinese setting. It is very important to have the personal interactions to generate new ideas and policies for the Society. Among the elected council members and the chairpersons of the various committees there is frequent interaction, or there should be, on matters concerning the Society. This generally works well. During my presidency we have added a midterm

meeting by conference call in January/February to solve immediate problems, to identify items for the "still-to-do list" and address new issues. This turned out to be an excellent opportunity to jog Council members' collective memories and to put various ideas further into actions. We also have a "wrap-up" meeting of the council just after the Business Meeting and before the Annual meeting ends to make sure that all decisions are implemented, new action items identified, and new venues explored.

The Divisional structure is now in place and, as seen from the annual reports, there are many activities to note. They are not always reflected in the Division websites, but this is something to improve over the future. I thank all the Divisions for their activities over the past two years and I am sure they will continue to play an important role in bringing the best of sciences to the forefront.

As for any Society, the membership is very important and I am pleased to see that after years of gradual decline the numbers are beginning to plateau. Thanks to Ray Ackhurst and his Membership Committee, in close collaboration with Peg Rotstein, our Executive Secretary, a new format has been installed, so that the actual status of our membership is more clear, and emeritus members, honorary members, etc., can be identified. We have lost some members in the various transitions we have had over the past years, but everything is now in place to put renewed energy into recruiting more members. The regional representation within this committee should be used to explore new venues to recruit. Why do we not have scientists from India as members and very few from China, whereas 20% of the invertebrate pathology papers are coming from these countries? Work to be done! During my various trips around the world I have become aware that there are various adjustments to be made, such as regional dues collection, personal membership sponsors, etc. Our secretariat and, in particular, Peg Rotstein, our Executive secretary, has done an outstanding job over the last two years in running the Society's administrative affairs. While the Council is changing from time to time, the secretariat is really a major constant in the equation. Peg has to work with different personalities as the Council changes and she deals with them nicely always. Our thanks to Peg.

At this time, when officers also change within the various Divisions and Committees, I would like to take this opportunity to thank them sincerely for their time and effort spent on behalf of the Society. Without disregarding all others, I would particularly like to thank Bob Granados for chairing the Nomination Committee for so long and with so much dedication. He is, as of this year, also our honorary member, an honor that is bestowed only on our most distinguished members. Bob has served the Society in almost every capacity and I congratulate him.

Finally it is time to hand over the book of rules and the gavel to my successor, Wendy Gelernter, as our next President. The Society always has been fortunate to have members willing to stand for office. Wendy is no exception. She has been active within the Society for many years and in many capacities, most recently as Vice-President, and formerly Chair of the Endowment Committee. As one of our most distinguished and most vocal members we are happy to have her as our new President.

Thanks to you all and I hope to see you next year in Quebec.

*Just M. Vlak*  
*President 2004-2006*

### Secretary's Report

#### Term of Office

Peter Krell assumed the position of SIP Secretary at the conclusion of the 2004 SIP General Business Meeting in Helsinki and will vacate that position at the conclusion of the 2006 SIP General Business Meeting in Wuhan, Peoples Republic of China.

#### Executive Meeting August 11, 2006:

One of the first tasks of the Secretary for 2005-2006 was to organize an informal in-person meeting of the new executive and council during the Anchorage Meeting. That meeting took place August 11, 2005, 12:30 to 13:30.

#### Business Meeting Minutes and Publication

The Secretary prepared the minutes of the Annual Business meeting (of August 2007) for inclusion in the November 2005 Newsletter, including all of the reports from the various committees and divisions.

#### Election

As this was an election year, the Secretary coordinated with the Nominating Committee, particularly Robert Granados, for collection and collation of the names of nominees for the position of President, Vice President, Secretary, Treasurer, two Trustees and Honorary Membership. The Secretary then coordinated with Leellen Solter to ensure that the election was publicized and that biographies of the nominees were published in the February 2006 Newsletter, along with the details and dates of the voting procedure. He prepared a ballot for the voting which was sent out by Peg Rotstein in late March to those members in her database. In addition to the ballot, and as suggested by Peg, she provided return envelopes addressed to the Secretary and with return addresses pre-labeled on the envelopes. Thus, voters only needed to fill out the ballot, place it in an envelope and mail it. This also simplified procedures for the secretary to keep track of the voters, and for the Teller's Committee to verify whether voters were members in good standing. Ballots were couriered on May 16, 2006 to the Tellers' Committee, Lorraine Braun and Martin Erlandson who were appointed by the President (both in the same geographic location and in the same country as the Secretary, which saved on mailing costs).

Based on the Tellers' 2006 Report submitted May 26, 2006, 216 ballots were received. Three members renewed their membership once they were alerted and their ballots were counted. In consultation with Peg's membership database, 21 ballots were discarded since the members were not in good standing. The President and Council were informed of the results of the voting by email on June 08, 2006.

The results of the election were, for President - Wendy Gelernter, Vice President - Mark Goettel, Secretary - Jenny Cory, Treasurer - James Becnel, and Trustees - Zhihong (Rose) Hu and Jørgen Eilenberg. Robert Granados was elected as an Honorary member. The Secretary, in his report to the President, commented that "we can be proud to have such an excellent slate of officers for the next two years".

#### SIP 2006 Wuhan Website and Organization

The Secretary coordinated suggestions on how to improve the Website for SIP 2006 and served as the central link between comments from Council and

the Web Master (Hao Ying) for updating of the Web Site.

### **Teleconference Jan 17, 2006**

The Secretary also helped (with Peg Rotstein) to organize a teleconference held on Jan 17, 2006, 12:00 to 14:00 ET. An Action Points list was generated from this meeting (Draft Minutes appended).

### **Action Plans**

Based on the in-person August 07 and August 11, 2005 meetings in Anchorage and the interim Conference Call January 17, 2006, a set of Action Points was composed, particularly for the President, Vice President and Secretary, and also for discussion at the August 27, 2006 Council meeting in Wuhan.

### **Agendas for Council Meeting and Business Meeting, SIP 2006 Wuhan**

The Secretary, in consultation with the executive, developed an agenda for the Council meeting (8:30 to 17:00, August 27, 2006) in Wuhan China and for the General Business Meeting, 10:30 to 12:30 Thursday, August 31, 2006).

### **Collation of Reports for Council Meeting Aug 27, 2006**

The secretary coordinated the collection, collation and editing of the committee and Division reports. The various and sundry electronic reports received from the communicating officers were collated into four files, one for each of four sections, and formatted to a common and consistent style. For these he developed a much appreciated template for reports from the Division Chairs, which provided more information and more uniformity in the nature of material provided and in the organization of this information. This also served to help alert the Division Chairs to outstanding issues within their Divisions (e.g. need to elect a student representative). Although too late to institute for this year, the Secretary is recommending that templates be developed for the reports from the Executive and various Committee Chairs.

The four Sections were:

Executive Reports (Minutes, President's Report, Secretary's Report, Executive Secretary's Report, Treasurer's Report and Auditors Report)

Meetings Reports (LOC 2006, LOC 2005, LOC 2007 and Meetings Committee Reports)

Committee Reports (for Newsletter, Membership, Founder's Lecture, Awards and Student Contest, Endowment and Financial Support, Bylaws, Nominating, Publications, History, and Student Affairs)

Division Reports (Bacteria, Fungus, Microbial Control, Microsporidia, Nematode and Virus Divisions).

### **Miscellaneous:**

The Secretary received (via Ray Akhurst) an invitation to the Society to send a representative to the International Union of Biological Sciences meeting 9-13 May, 2007 in Washington DC (not included). As this was just received, the Secretary will bring this up for discussion and action during his report. The Secretary reminded (and re-reminded) certain executive members when actions were due and when reports were due. He also responded to requests for assistance or as a contact point for the Society.

### **Thanks and Appreciation**

On reflection, the Secretary noted that this office provided a great opportunity for him to know a broader spectrum of the membership and he appreciated working with some great people. The Secretary would like to acknowledge the support, patience, indulgence and encouragement of the executive and council and other SIP members. Without their advice, reminders, and prompt attention to requests for information or reports this would have been a more difficult job. The Secretary would also like to thank Peg Rotstein, particularly with the election and mailing out of ballots and organizing and hosting the Teleconference.

Respectfully and humbly submitted

*Peter J. Krell, SIP Secretary*

### **Treasurer's Report**

The Society's financial statements for the fiscal year ending April 30, 2006 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 two CDs maturing in May 2006 and February 2007, respectively. The \$50,000 CD that matured during the current fiscal period was reinvested, whereas the principle and interest from the \$30,000 CD is being held in reserve in checking until after the completion of the 2006 annual meeting. Total interest earned for the fiscal year was \$3,914.16.

Society revenues for the fiscal year were \$176,631.31 and expenses totaled \$191,296.74, which includes meeting revenues and expenses (Exhibit B), for a net loss of \$14,665.43. The net loss is attributable primarily to spending increases

for meeting speakers and student travel and a small profit from the 2006 meeting. Spending for speakers and students was \$21,897.58 compared to \$18,087.44 in 2005. Net profits from the Alaska meeting were \$5,281.15, including corporate donations. Income from membership dues was down, \$15,914 compared to \$16,280 for fiscal year 2005. However, revenue from contributions and interest both increased by \$691 and \$2206.73, respectively. Expenses for the newsletter and supplies continued to go down; \$980 for fiscal year 2006 compared to \$1472 in 2005. Other office expenses also declined \$930, in aggregate. These expenses have been reduced by use of the Society website for publishing newsletters, emailing members and renewing memberships. This savings has been considerable for costs in printing and mailing; both of which have increased over the past years. We should continue to use our website to outreach to new members and to provide all members easy access to Society resources. Charges for our new accounting service in Tennessee are also less than our previous service in Florida, for a savings of \$257 this fiscal year. Expenses for speakers and students

included \$6,000 meeting program support for Divisions (\$1000 each), support for Division student travel awards (\$500 each), and \$3250 in discretionary funds to support speakers in cross-division and non-insect invertebrate symposia.

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

Overall, the fiscal health of the Society is good (Exhibit A). Our total assets are \$179,553, down from \$185,553 last year. Funds have been invested in CDs with differing times to maturity in order to take advantage of the rising interest rates.

Respectfully submitted,  
*Suzanne M. Thiem*  
 Treasurer

**EXHIBIT A**  
**FUND BALANCE**  
**4/30/05                      4/30/06**

General and Administrative	\$141,250.27	\$121,287.38
Virology	\$3,143.00	\$3,275.00
Bacteria	\$997.30	\$937.30
Microsporidia	\$2,144.00	\$2,169.00
Microbial Control	\$6,257.33	\$5,533.33
Fungi	\$646.00	\$1,454.00
Nematode	\$2,774.00	\$3,059.00
Endowment	\$8,958.98	\$9,597.70
Martignoni	\$14,767.43	\$18,195.00
Chris Lomer	\$4,615.07	\$5,380.24
<b>TOTAL</b>	<b>\$185,553.38</b>	<b>\$170,887.95</b>



**Tariq Butt and Charlotte Nielsen**

**SOCIETY FOR INVERTEBRATE PATHOLOGY  
COMPARATIVE STATEMENT OF FINANCIAL POSITION  
FOR PERIODS ENDED MAY 1, 2005 THROUGH APRIL 30, 2006**

**ASSETS****Current Assets**

Checking	125,823.83
Certificates of Deposit	53,000.00
Miscellaneous	
Receivable	360.11
Accrued Interest	369.10

<b>TOTAL ASSETS</b>	<b><u>179,553.04</u></b>
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**LIABILITIES & EQUITY****Liabilities**

Accounts Payable	140.00
Canadian Tax for JIP	6.79
JIP - Payable	5,911.99
Meeting Registrations for China	4,279.00

<b>Total Liabilities</b>	<b><u>10,337.78</u></b>
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**Equity**

Opening Bal Equity	183,747.59
Net Income	-14,532.33

<b>Total Equity</b>	<b><u>169,215.26</u></b>
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<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b><u>179,553.04</u></b>
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**SIP Presidents, past and present: Jim Harper, Harry Kaya, Juerg Huber, Brian Federici, Don Roberts, Wendy Gelernter, Just Vlak, Betty Davidson and Bob Granados**

## EXHIBIT B

**SOCIETY FOR INVERTEBRATE PATHOLOGY  
COMPARATIVE STATEMENT OF ACTIVITY  
FOR PERIODS ENDED MAY 1, 2005 THROUGH APRIL 30, 2006**

2006 Activity

<b>REVENUE</b>	<b>General Fund</b>	<b>Board Designated Funds (Schedule 1)</b>	<b>Total 2006</b>	<b>Total 2005</b>
Membership Dues (Note 1)	\$13,170.00	\$2,744.00	\$15,914.00	\$16,280.00
2004 Annual Meeting	\$-	\$-	\$-	\$21,160.63
2005 Meeting Income	152,956.15	\$-	\$152,956.15	\$4,500.00
Contributions	\$127.00	\$3,158.00	\$3,285.00	\$2,594.00
Interest (See Note 2)	\$2,986.28	\$927.88	\$3,914.16	\$1,707.43
T-Shirt Sale - MCD	\$-	\$60.00	\$60.00	\$-
Publication Handling Fees	\$152.00	\$-	\$152.00	\$177.00
Refund from Meeting Speaker	\$350.00	\$-	\$350.00	\$-
<b>TOTAL REVENUE</b>	<b>\$169,741.43</b>	<b>\$6,889.88</b>	<b>\$176,631.31</b>	<b>\$46,419.06</b>

<b>EXPENSE</b>				
Postage and Delivery	\$746.38	\$-	\$746.38	\$1,583.45
Newsletter - Printing, Mailing, Supplies	\$980.00	\$-	\$980.00	\$1,471.77
Supplies and Duplicating	\$693.11	\$-	\$693.11	\$384.22
Office Equipment	\$173.71	\$-	\$173.71	\$782.74
Accounting Services	\$942.55	\$-	\$942.55	\$1,200.00
Internet Services	\$206.53	\$-	\$206.53	
Secretariat (Peg's Salary)	\$10,548.00	\$-	\$10,548.00	\$11,050.00
Web Master Services	\$280.00	\$-	\$280.00	\$-
Telephone	\$817.18	\$-	\$817.18	\$1,066.23
Awards – Speaker, Student Travel	\$9,737.58	\$12,160.00	\$21,897.58	\$18,087.44
Credit Card Charges	\$1,464.62	\$-	\$1,464.62	\$1,406.88
Bank Account Fees	\$116.14	\$-	\$116.14	\$180.00
2005 Meeting Expenses	147,424.00	\$-	\$147,424.00	\$650.50
2006 Meeting - Seed money	\$5,000.00	\$-	\$5,000.00	\$-
MCD T-shirt	\$-	\$-	\$-	\$70.00
Miscellaneous Expense	\$6.94	\$-	\$6.94	\$-
<b>TOTAL EXPENSE</b>	<b>\$179,136.74</b>	<b>\$12,160.00</b>	<b>\$191,296.74</b>	<b>\$37,933.23</b>

<b>Net Revenue Before Fund Transfers</b>	<b>\$(9,395.31)</b>	<b>\$(5,270.12)</b>	<b>\$(14,665.43)</b>	<b>\$8,485.83</b>
<b>Fund Transfers</b>				
Endowment Fund Transfer	\$360.00	\$(360.00)	\$-	\$-
Speaker Fund Transfer	\$(6,000.00)	\$6,000.00	\$-	\$-
Student Travel Fund Transfer	\$(3,000.00)	\$3,000.00	\$-	\$-
Endowment Funds Interest Adjustment (See Note 3)	\$(1,927.58)	\$1,927.58	\$-	\$-

<b>Net Revenue After Fund Transfers</b>	<b>\$(19,962.89)</b>	<b>\$5,297.46</b>	<b>\$(14,665.43)</b>	<b>\$(24,593.61)</b>
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## Exhibit C

**SOCIETY FOR INVERTEBRATE PATHOLOGY  
BOARD DESIGNATED FUND REVENUE AND EXPENSE  
FOR PERIODS ENDED MAY 1, 2005 THROUGH APRIL 30, 2006**

	<b>Virol.</b>	<b>Bact.</b>	<b>Microsp</b>	<b>Microb.</b>	<b>Fungi</b>	<b>Nemat.</b>	<b>Endow</b>	<b>Martignon</b>	<b>Chris</b>	<b>Total</b>
<b><u>REVENUE</u></b>										
Membership Dues	\$1,132 *	\$ 440	\$ 275	\$ 376	\$ 236	\$ 285	\$ -	\$ -	\$ -	<b>\$2,744.00</b>
Contributions	\$ -	\$ -	\$ -	\$ -	\$ 72	\$ -	\$ 171	\$ 2,296.00	\$ 619.00	<b>\$3,158.00</b>
MCD Tshirt	\$ -	\$ -	\$ -	\$ 60	\$ -	\$ -	\$ -	\$ -	\$ -	<b>\$ 60.00</b>
Interest Income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 306.07	\$ 475.64	\$ 146.17	<b>\$ 927.88</b>
<b>Total Revenue</b>	<b>\$ 1,132</b>	<b>\$ 440</b>	<b>\$ 275</b>	<b>\$ 436</b>	<b>\$ 308</b>	<b>\$ 285</b>	<b>\$ 477.07</b>	<b>\$ 2,771.64</b>	<b>\$ 765.17</b>	<b>\$6,889.88</b>
<b><u>EXPENSE</u></b>										
Speaker Awards	\$1,500	\$ 1,000	\$1,000	\$ 1,160	\$ 500	\$ 1,000	\$ -	\$ 750.00		<b>\$6,910.00</b>
Student Travel Award	\$1,000	\$ 1,000	\$ 750	\$ 1,500	\$ 500	\$ 500	\$ -	\$ -	\$ -	<b>\$5,250.00</b>
<b>Total Expense</b>	<b>\$2,500</b>	<b>\$ 2,000</b>	<b>\$1,750</b>	<b>\$ 2,660</b>	<b>\$ 1,000</b>	<b>\$ 1,500</b>	<b>\$ -</b>	<b>\$ 750.00</b>	<b>\$ -</b>	<b>\$12,160.00</b>
<b>Net Revenue Before Fund Transfers</b>	<b>\$(1,368)</b>	<b>\$(1,560)</b>	<b>\$(1,475)</b>	<b>\$(2,224)</b>	<b>\$( 692)</b>	<b>\$(1,215)</b>	<b>\$ 477.07</b>	<b>\$ 2,021.64</b>	<b>\$ 765.17</b>	<b>\$(5,270.12)</b>
<b><u>FUND TRANSFERS FROM GENERAL FUND</u></b>										
Fund Transfers for Interest Deficit	Note 3 \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 521.65	\$ 1,405.93	\$ -	<b>\$1,927.58</b>
Fund Transfers for Endowment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (360)	\$ -	\$ -	<b>\$(360.00)</b>
Fund Transfer for Speaker Awards	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ -	\$ -	\$ -	<b>\$ 6,000.00</b>
Fund Transfer for Student Awards	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ 500	\$ -	\$ -	\$ -	<b>\$ 3,000.00</b>
<b>Total Fund Transfer</b>	<b>\$ 1,500</b>	<b>\$ 1,500</b>	<b>\$ 1,500</b>	<b>\$ 1,500</b>	<b>\$ 1,500</b>	<b>\$ 1,500</b>	<b>\$ 161.65</b>	<b>\$ 1,405.93</b>	<b>\$ -</b>	<b>10,567.58</b>
<b>Net Revenue After Fund Transfers</b>	<b>\$ 132</b>	<b>\$(60)</b>	<b>\$ 25</b>	<b>\$(724)</b>	<b>\$ 808</b>	<b>\$ 285</b>	<b>\$ 638.72</b>	<b>\$ 3,427.57</b>	<b>\$ 765.17</b>	<b>\$ 5,297.46</b>

\*Cents omitted where zero.

**Exhibit D**

<b>Note 1: Membership Dues</b> (previous; current)	<b>2005</b>
Full Member (423@\$30; 420@\$30)	\$12,690.00
Student Member (54@\$15; 38@\$15)	\$810.00
Microsporidia (46@\$5; 55@\$5)	\$230.00
Virology (12@\$2, 109@\$10; 11@\$2, 111@\$10* )	\$1,114.00
Bacteria (71@\$2; 49@\$10; 85@\$2; 27@\$10 )	\$632.00
Microbial Control (171@\$2; 188@\$2)	\$342.00
Fungi (120@\$2; 118@\$2)	\$240.00
Nematode (40@\$5, 11@\$2; 1@\$3, 54@\$5, 6@\$2)	\$222.00
<b>TOTAL</b>	<b>\$16,280.00</b>

\* one member paid thru 2009

**Note 2: Interest and Investments**

Investments owned by SIP

	<b>CD FREMONT INV &amp; LOAN</b>		<b>CD FIRSTBANK OF PR</b>		<b>CD FIRSTBANK OF PR</b>		<b>CD LEHMAN BROS BANK</b>	
	<b>REDEEMED</b>	<b>Interest Earned</b>	<b>REDEEMED</b>	<b>Interest Earned</b>	<b>REDEEMED</b>	<b>Interest Earned<sup>a</sup></b>	<b>PENDING</b>	<b>Interest Earned<sup>b</sup></b>
<b>Society Operations:</b>								
Cost	\$22,999.52	\$303.91	\$30,000.00	\$546.00			\$21,365.97	\$426.15
Maturity Date	8/24/05		3/1/06				3/1/07	
Interest Rate	2.65%		3.65%				4.00%	
<b>Endowment Fund:</b>								
Cost	\$9,198.98	\$121.55					\$9,251.53	\$184.52
Maturity Date	8/24/05						3/1/07	
Interest Rate	2.65%						4.00%	
<b>Chris Lomer Fund</b>								
Cost	\$4,096.07	\$54.12					\$4,615.07	\$92.05
Maturity Date	8/24/05						3/1/07	
Interest Rate	2.65%						4.00%	
<b>Martignoni Fund</b>								
Cost	\$13,705.43	\$181.10					\$14,767.43	\$294.54
Maturity Date	8/24/05						3/1/07	
Interest Rate	2.65%						4.00%	
<b>Microbial Control Division</b>								
Cost**					\$3,000.00	\$59.83		
Maturity Date					5/24/06			
Interest Rate					4.00%			
<b>TOTAL VALUE</b>	<b>\$50,000.00</b>	<b>\$660.68</b>	<b>\$30,000.00</b>	<b>\$546.00</b>	<b>\$3,000.00</b>	<b>\$59.83</b>	<b>\$50,000.00</b>	<b>\$997.26</b>

<sup>a</sup>for next fiscal year

<sup>b</sup>interest was paid on 3/1/2006 for 1st year of 2 yr investment

**Note 3. Fund Transfers for Interest Deficit****Martignoni Fund (2003-2006) - Years where award cost more than interest earned**

	2003	2004	2005	2006	TOTAL
Interest Income	\$370.02	\$47.77	\$100.64	\$475.64	\$994.07
Total	\$370.02	\$47.77	\$100.64	\$475.64	\$994.07
Speaker Awards	\$(400.00)	\$(500.00)	\$(750.00)	\$(750.00)	\$(2,400.00)
Total	\$(400.00)	\$(500.00)	\$(750.00)	\$(750.00)	\$(2,400.00)
<b>Deficit (to be repaid)</b>	<b>\$(29.98)</b>	<b>\$(452.23)</b>	<b>\$(649.36)</b>	<b>\$(274.36)</b>	<b>\$(1,405.93)</b>

**Endowment Fund (2003-2006)- Years where award cost more than interest earned**

	2003	2004	2005	2006	TOTAL
Interest Income	\$323.77	\$34.73	\$67.55	\$306.07	\$408.35
Total	\$323.77	\$34.73	\$67.55	\$306.07	\$408.35
Fund Transfer to cover memberships	\$(210.00)	\$(210.00)	\$(360.00)	\$(360.00)	\$(930.00)
Total	\$(210.00)	\$(210.00)	\$(360.00)	\$(360.00)	\$(930.00)
<b>Deficit (to be repaid)</b>	<b>\$-</b>	<b>\$(175.27)</b>	<b>\$(292.45)</b>	<b>\$(53.93)</b>	<b>\$(521.65)</b>

**Audit of the Treasurer's Report for  
Fiscal Year 2005-2006**

The Auditors Committee has reviewed the treasurer's report, find no discrepancies and believe the Society to be on sound financial footing. The Society has spent down the overall assets primarily due to speaker and student Travel Awards as directed by the membership.

Respectfully submitted,  
*James J Becnel*  
*Jeff Lord*

**Executive Secretary Report**

Over the past year, I have performed my contractual duties as executive secretary including the following:

- Printed, mailed and posted online three newsletters and one supplement
- Maintained the membership database
- Mailed and emailed two renewal reminders
- Maintained the bank accounts including six Division accounts, and three funds

- Worked with our treasurer and tax preparer to submit annual income tax forms
- Produced financial and membership reports for the treasurer and all divisions
- Produced tables and graphs for membership report
- Printed and mailed out the ballots for the election of SIP officers
- Received and answered emails and letters from members and officers

In addition to my contractual duties,

- I worked with the Membership Committee, president and vice president to contact members that had not renewed in the last 5 years. We mailed out almost 700 letters, brochures and membership forms to encourage renewal in the Society.
- In response for a need to accept credit cards online for the China meeting, I was able to set up a connection from the China website to SIP online credit card processing system. This system enabled meeting registrants to pay by credit card online and in "real-time". I must thank the organizers in China, especially Han

Dongmei, for their patience and assistance over both time and language barriers.

- I assisted David Onstad with publishing an online edition of “An Abridged Glossary of Terms Used in Invertebrate Pathology. “
- I worked with Michael Brownbridge to design new web pages for the Microbial Control division.
- I continued to update and improve the SIP website. I added an obituary section that holds pictures and biographies of recently departed members.

I would like to thank all of the officers and chairs that are ending their terms and I look forward to working with all of the new individuals as they learn the inner workings of the Society. I want to give special thanks to our treasurer Suzanne Thiem who will complete her fourth year of service as treasurer. She has been patient and careful in working with a complicated system of bookkeeping. As our President Just Vlak’s term is coming to an end; I would like to thank him for his assistance with all my questions. We were able to organize two mid-year council phone conferences which were a first for SIP. Many thanks also go to our secretary Peter Krell for his dedication and hard work.

I would like to particularly single out our newsletter editor, Lee Solter. Over the past years she has assumed many extra responsibilities in her career, yet she has done an excellent job of editing the newsletter. I want to thank her and her committee for always having the newsletter in great shape for publishing.

One of the best parts of last year was attending the SIP meeting in Alaska. I enjoyed seeing old friends and reconnecting with the membership and officers. This year I started a new job with NOAA, National Marine Fisheries Service as a database and Internet programmer for the Marine Mammal Stranding Program. Although I no longer work with insects, I hope to help recruit some SIP members from the marine invertebrate world!

I look forward to serving SIP in the following years. As always, please feel free to contact me with questions or comments.

Respectfully submitted,  
 Peg Rotstein, Executive Secretary

**2006 SIP Newsletter Report**

Three issues of the Newsletter comprising a total of 92 pages were produced in 2005-2006. In addition to newsletter text, one supplement comprising eight pages was printed. The supplement consisted of the registration

forms for the Wuhan, China meeting. Meeting announcements, SIP meeting registration, position announcements and other information of a timely nature were also posted on the SIP Website.

The Newsletter text was prepared in Urbana, Illinois and printed in Knoxville, Tennessee. Newsletters were mailed to U.S. members using the U.S. Postal Service and to other countries using Deutsche Post Global Mail. The Newsletter cost was \$148.85 higher this year than in 2005 due to increased membership (+25 members), increased postal rates, and more total pages printed (+ 4 pages).

The Newsletter is available on the Society’s website as downloadable PDF files. Approximately 74.4% of members chose to receive only online copies of the Newsletter. We continue to 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, 2006**

Total cost of Newsletter (3 issues): \$1445.61  
 Cost per member based on 501 members: \$2.89

	<b>Nov. 2005</b>	<b>Feb. 2006</b>	<b>June 2006</b>	<b>Totals</b>
	Vol 38(3) 40 pp.	Vol 39(1) 28 pp*	Vol 39(2) 24 pp.	<b>92 pp.</b>
Printing	\$ 251.50	\$ 226.96	\$ 209.28	<b>\$687.74</b>
US Mail	\$ 51.06	\$ 76.59	\$ 36.54	<b>\$164.19</b>
Int'l Mail	\$ 214.08	\$ 237.25	\$ 142.35	<b>\$593.68</b>
<b>Totals</b>	<b>\$516.64</b>	<b>\$540.80</b>	<b>\$388.17</b>	<b>\$1445.61</b>

Respectfully submitted,

Leellen Solter, Editor  
 Gernot Hoch, Assistant Editor  
 Vince D’Amico, Assistant Editor

## COMMITTEE REPORTS

### Meetings Committee Report

The 38th Annual Meetings were held in Anchorage, Alaska. Approximately 320 persons attended. More details can be found in the Anchorage Report. The Committee is very grateful to Drs. Kelli Hoover and Diana Cox-Foster and their teams for the organization of an excellent meeting both scientifically and socially. All participants enjoyed Anchorage's hospitality and the good weather.

All is set 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) in Wuhan. More details can be found in the Wuhan report.

Council has approved the Committee's recommendation for a Quebec City venue for 2007 hosted by Dr. Jean-Louis Schwartz and colleagues. The Committee expects to interact frequently with the Quebec Organizing Committee in the coming months.

Discussions have been initiated with Dr. Doreen Winstanley for a U.K. venue in Warwick for SIP 2008. Preliminary discussions have also taken place for a possible annual meeting in Ithaca, NY in 2009 or the International Colloquium in 2010. This would be the first International Colloquium to be held in the United States and if it were to take place, special considerations would need to be given to the venue of the annual meeting of 2009. The Committee solicits your views and suggested venues for the 2009 and 2010 meetings.

The approved and tentative sites for SIP Meetings through 2010 are as follows:

2007 Quebec City

2008 <sup>2</sup> U.K. Warwick in planning stage.

2009 North America, Central or West? Suggestions and proposal solicited. Non-USA if ICIP is in NA in 2010?

2010 <sup>1, 2</sup> Suggestions solicited; A North American International Colloquium?

<sup>1</sup> International Colloquium

<sup>2</sup> International Conference on *Bacillus thuringiensis*

The Committee has prepared a Draft Meetings Guide. The Committee will solicit comments from Council, as well as past, present and future Meeting's Chairs for their input and comments before finalizing the document.

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 500 members (Table 1), an increase from 472 in 2004. Of the members in 2005, 123 did not renew their membership for 2006. However, the response to the mailing to members who did not renew over the past five years resulted in 77 renewing membership. The Committee is most grateful to Peg Rotstein and Wendy Gelernter who played key roles in putting the message together and to Peg for sending it out.

All regions showed an increase in membership in 2006. The most notable increases were in Australasia and in Central and South America (Figure 1). On a country-by-country basis, most (20) showed an increase, with 15 countries unchanged since 2005 and only 9 showing any decrease (Table 2). The increase redressed the mini-slump experienced in 2004 and 2005 and took membership back to the level of 2002, which was the year in which membership dropped most dramatically (Table 2). Without the renewals that resulted from the mailout the membership would have dropped to 423. There is clearly a need to attract new members as well as to continue to engage existing members.

This year has seen a resurgence in membership of the Divisions, with each Division showing some growth (Table 3)

### Activities during 2005-2006

The committee for 2005/06 was Neil Crickmore, Betty Davidson, Caroline Hauxwell, Trevor Jackson, Kerstin Jung, Juan Jurat-Fuentes, Lerry Lacey, Andreas Linde, and Ray Akhurst. Those members present at the Anchorage meeting met subsequent to the Council meeting to plan activities for the coming year; Peg Rotstein joined that meeting. We agreed on the need for two broad strategies: 1. to re-gather members who had inadvertently drifted away; 2. to attract new members.

The approach to re-gathering former members was a mailout. A letter to former members who had not renewed over the past five years was drafted by Peg Rotstein with input from the Committee and some additional touches by Wendy Gelernter. The letter went out to 684 former members and produced 77 renewals.

Ideas for attracting new members were

- An advertisement for SIP that consists of a punchy statement of the advantages of being a member of SIP. The advert will appear in JIP and be placed on the website as a PDF file for downloading by members attending meetings of other societies.
- Testimonials from members at various stages of their careers included in the advert. If we have a series of testimonials, a different one could be placed in each issue of JIP.
- A clear statement of the advantages of membership. The first option implemented was to allow members only access to the PowerPoint presentations for the annual SIP meeting; the presentations will be copy-protected. As speaker permission will be required, it was decided that only symposia presentations would be requested from the 2005 meeting. For future meetings, speakers will be advised that their presentations will be made available unless they specifically direct otherwise.

- Discuss with Elsevier the possibility of accessing their authorship lists in electronic form so that invitation to join could be sent.

Regrettably, there was only a small amount of activity around these ideas. Several committee members provided statements of the advantage of membership and offered or identified individuals prepared to supply testimonials. The Chair spoke with René Plug, Publishing Editor Life Sciences, about accessing the author list from Elsevier. There are some privacy issues but René thought that it might be possible for Elsevier, on our behalf, to contact the authors who did not opt-out of receiving further information. This could be worth pursuing once we have the advert prepared.

#### **Emeritus Membership**

Two applications for Emeritus Membership were received and approved by the Committee. The new Emeritus Members were Dr Al Yousten (USA) and Dr Paul Scotti New Zealand).

Submitted on behalf of the Membership Committee  
*Ray Akhurst, Chair*

**Table 1. Calendar Year membership (Jan 1 - July 17, 2006)**

	Number	Percentage
Total Membership	500	
Number members renew/join online	240	48%
New members	132	26%
Renewals	368	74%
Members not renewing from last year	123	51%
Full Members	408	82%
Student Members	39	8%
Endowed Members	12	2%
Honorary Members	9	2%
Emeritus	31	6%
Members electing to receive the journal	53	11%

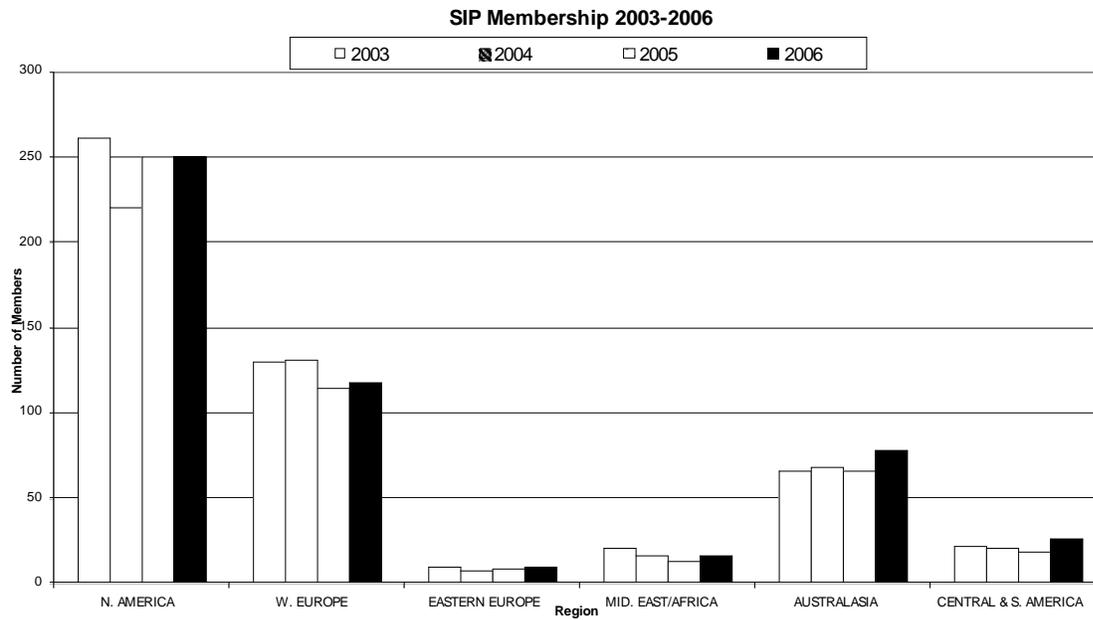


Figure 1. Membership 2003-2006

Table 2. Membership by Location (2000 - 2006)

<i>LOCATION</i>	<i>2000</i>	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>% change 2005 =&gt;2006</i>
CANADA	50	52	38	47	38	41	42	
MEXICO	31	15	13	10	12	7	9	
UNITED STATES	273	256	189	205	171	202	200	
<b>N. AMERICA</b>	<b>354</b>	<b>323</b>	<b>240</b>	<b>262</b>	<b>221</b>	<b>250</b>	<b>251</b>	<b>0.40%</b>
AUSTRIA	6	6	4	3	4	4	5	
BELGIUM	3	3	2	2	2	1	1	
DENMARK	3	5	5	5	5	3	4	
FINLAND	2	3	3	3	2	2	2	
FRANCE	26	23	17	16	17	14	15	
GERMANY	17	24	9	10	13	10	13	
GREECE	1	1	1	2	1	1	1	
ITALY	4	4	3	4	5	4	4	
THE NETHERLANDS	13	21	12	8	10	9	9	
NORWAY	2	3	2	2	5	4	2	
PORTUGAL	4	3	2	3	3	2	1	
SPAIN	9	10	11	7	9	11	15	
SWEDEN	5	4	4	4	4	3	3	
SWITZERLAND	7	4	5	6	3	4	3	
UNITED KINGDOM	76	77	60	55	48	43	40	
<b>W. EUROPE</b>	<b>178</b>	<b>191</b>	<b>140</b>	<b>130</b>	<b>131</b>	<b>115</b>	<b>118</b>	<b>2.61%</b>

Table 2. Membership by Location (2000 - 2006) (ctd)

<i>LOCATION</i>	<i>2000</i>	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>%change 2005=&gt;2006</i>
BULGARIA	1	-	-	1	-	2	2	
CZECH REPUBLIC	2	1	1	2	1	1	2	
LATVIA	-	-	-	-	-	-	1	
POLAND	3	7	2	3	4	3	2	
RUSSIA	2	2	1	3	3	3	3	
<b>EASTERN EUROPE</b>	<b>8</b>	<b>10</b>	<b>4</b>	<b>9</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11.11%</b>
CENTRAL AFRICA	-	-	-	-	1	-	-	
EGYPT	3	2	1	2	1	-	-	
IRAN	2	2	-	1	1	-	-	
ISRAEL	9	11	6	6	5	5	7	
KENYA	3	4	1	2	1	2	2	
SOUTH AFRICA	4	3	3	2	2	2	4	
WEST AFRICA	4	3	1	3	3	2	2	
SYRIA	-	-	-	-	1	-	-	
TURKEY	1	1	3	2	2	2	2	
<b>MID. EAST/AFRICA</b>	<b>27</b>	<b>26</b>	<b>15</b>	<b>21</b>	<b>17</b>	<b>13</b>	<b>17</b>	<b>30.77%</b>
AUSTRALIA	23	22	13	14	11	11	15	
PR OF CHINA	6	4	6	3	5	5	7	
INDIA	4	3	1	2	2	4	7	
INDONESIA	-	2	1	1	1	1	1	
JAPAN	49	47	36	34	34	27	28	
NEW ZEALAND	7	10	5	5	9	6	10	
PHILLIPINES	2	3	2	1	1	1	2	
KOREA	3	2	3	1	1	-	1	
TAIWAN ROC	4	3	2	2	2	8	5	
THAILAND	3	3	2	3	2	3	2	
<b>AUSTRALASIA</b>	<b>101</b>	<b>99</b>	<b>71</b>	<b>66</b>	<b>68</b>	<b>66</b>	<b>78</b>	<b>18.18%</b>
ARGENTINA	5	11	7	3	4	2	5	
BRAZIL	16	15	23	13	13	10	15	
COLOMBIA	6	2	-	1	1	2	2	
CUBA	-	-	-	-	-	3	3	
DOMINICAN REP.	1	1	-	1	1	1	-	
ECUADOR	-	-	-	1	1	1	1	
NICARAGUA	-	-	-	-	1	-	-	
PERU	1	-	-	1	-	-	-	
VENEZUELA	1	3	1	2	-	-	-	
<b>CENTRAL &amp; S. AMERICA/CARRIBEAN</b>	<b>33</b>	<b>32</b>	<b>31</b>	<b>22</b>	<b>21</b>	<b>19</b>	<b>26</b>	<b>36.84%</b>
<b>TOTAL</b>	<b>703</b>	<b>681</b>	<b>501</b>	<b>510</b>	<b>466</b>	<b>472</b>	<b>500</b>	<b>5.93%</b>

**Table 3. Division membership 2003 - 2006**

Division	Number of Members		
	2004	2005	2006
Microsporidia	42	40	53
Microbial Control	179	156	196
Bacteria	86	98	101
Virus	95	104	111
Fungus	115	99	123
Nematode	43	47	58
<b>TOTAL</b>	<b>560</b>	<b>544</b>	<b>642</b>

### SIP Endowment and Financial Support Committee

#### General

Jim Harper was appointed by President Vlak to the committee to work with Wendy Gelernter during the year and to transition into the role of co-chair with Pat O'Leary beginning May 1, 2006.

Members of the Committee during the year included Gelernter (Chair through April 30), Harper, O'Leary, Jurg Huber and Michael Dimmock.

#### Corporate donations

**Table 1. Corporate donations requested and received in 2006**

Company	Amount
Agraquest	250
Bayer Crop Science	1,000
Bayer Bioscience	1,000
Becker Microbial Products	250
Certis	1,000
Dow	1,000
Monsanto	1,000
Pioneer	1,000
Syngenta	1,500
Taylor and Francis	500
Valent	1,000
<b>Total</b>	<b>9500</b>

The above companies donated generously to support our Society and our meeting for 2006. They will be recognized in our program and should be given recognition during our opening session and during our final business meeting. The Local Arrangements Committee should display their logos and names in a

conspicuous location during the meetings with an expression of appreciation.

**Chris Lomer 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 make a grant until this year. Council, in the 2005 meeting, agreed to supplement low earnings on the endowment to initiate the first award of \$500 for travel to the 2006 China meetings. This has been done and the first recipient has been named as per a separate report to Council from the Lomer Fund Committee appointed for this purpose and chaired by Paresh Shah.

Earnings during the past year were up somewhat per the table below due to better CD rates and should continue to improve given the current upward trend in interest rates for short term certificates of deposit.

**Endowment and Martignoni Funds:** A combination of healthy principal amounts and voluntary contributions by SIP members keep these funds in healthy operating condition, despite low interest rates. Earnings in each endowment increased significantly over the previous year due to somewhat better CD earning rates. Both funds generated less than the amount required to cover the entire costs of the expenses funded by them, but they each earned approximately 60% (Martignoni) and 85% (SIP Endowment) of the amounts awarded versus 13% and 20%, respectively, last year. With current CD earning rates, each of these fund's principals should earn at least 80-85% of their award levels next year. A combination of member

contributions and higher earnings should make these endowments self-supporting within another one to two years.

The SIP Endowment earned \$306.07 as compared to \$67.75 in the previous year. The SIP Endowment earnings were used to pay membership dues for 12 individual members for a total cost of total \$360. These members would otherwise not have been able to maintain their memberships due to costs, difficulty in foreign exchange or other credible problems.

The Martignoni Student Travel Award Endowment earned \$475.64 as compared to \$100.64 in the previous year. The Endowment provided 63% of the payment of a \$750 award for student travel to the 2006 meeting that previous Councils agreed upon as the permanent award (see Awards and Student Contest Committee report for awardee information). The Martignoni family again made a generous \$1000 donation to the Endowment in 2006 and President Vlak sent a letter of appreciation.

**Recommendations for 2004/2005**

- Given the current period of increase in rates being paid by CD's and the small difference in earnings for short-term versus long term CD's, the Committee recommends investing the majority of funds in the Endowment, Martignoni and Lomer funds in six month or other short-term CD's as long as the general economy remains stable to gradually increasing and the rates between long and short term CD's are not appreciably different.
- The Committee further recommends that Council adopt a clear and permanent policy of subsidizing the full costs of each of these awards at the current award levels by paying for them from the Society's general fund and using the interest earned from each endowment to reimburse the general fund to the level possible each year when the earnings do not equal or surpass the award amount. This subsidy would be in keeping with the spirit of the membership expressed

at the inception of each of these endowments, and clearly is in keeping with the goals and mission of the Society. When earnings surpass expenses, the excess earnings should be moved to the principal of the specific endowment to increase the long term earning potential of each, which will help guard against poor economic conditions and low earning periods in the future.

- The Committee recommends that past amounts of principal used from these funds for making awards be replaced by the Society's general fund to insure the stability and strength of the endowments and to fulfill the intent of previous Council decisions that agreed to these subsidies. In the past, Councils have agreed to make these awards rather than wait until the accrued interest allowed full payment of the award in a given year with the intent of subsidizing them rather than using their principal. This action will restore the true principal in each endowment affected which will increase the earnings of each and decrease the amount of future subsidies required to make the annual awards. If this action is taken, the Martignoni Fund should be nearly if not totally self-supporting next year and will definitely be so in 2008. For the Martignoni fund, this would require \$1,405.93 for the six years the award has been given which should make the fund about 95% self-sufficient next year and fully self-sufficient in 2008. For the Endowment Fund, this would require a transfer of \$521.65 and would make the fund self-sufficient next year at the current CD earning rates.

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

	2001	2002	2003	2004	2005	2006	% change (2004 – 2005)
Corporate donations	13,000	8,650	9,150	7,182	8,750	9,500	9
Endowment	8,432	8,925	9,232	9,131	8,959	9,076	1
Martignoni	8,048	9,643	12,182	13,605	14,767	16,789	14
Lomer Memorial	----	1,466	3,683	4,066	4,615	4,880	6

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

	Endowment	Martignoni	Lomer
4/30/04 balance	8,958.98	14,767.43	4615.07
Donations	171.00	2,296.00	619.00
Interest (~0.7%)	306.07	475.64	146.17
Expenses	(360.00) <sup>1</sup>	(750.00) <sup>2</sup>	(500) <sup>3</sup>
4/30/05 balance	9,076.05	16,789.07	4880.24
<b>Net change (2005 balance - 2004 balance)</b>	<b>117.07</b>	<b>2,021.64</b>	<b>265.17</b>

## NOTES:

<sup>1</sup> \$360 expense for 12 endowed memberships

<sup>2</sup> \$750 expense for Martignoni student award

<sup>3</sup> \$500 expense for Lomer travel award

Respectfully submitted,

*Jim Harper and Pat O'Leary*

### 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 2005 meeting, when 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, including those nominated from time to time by the Society's membership. Subsequent communications within the Committee were made by email.

The Committee's unanimous recommendation was that, in recognition of their outstanding service to the science and teaching of invertebrate pathology, Dr. Justinus M. Vlak be invited to be the Society's 2006 Founders' Lecturer and the late Professor Gao Shang-Yin to be the 2006 Honoree.

On his return to Adelaide, the Chairman, on behalf of the Committee, sent a formal letter of invitation to Dr. Vlak to be the Society's 2006 Founders' Lecturer. It is a pleasure to report that the invitation was accepted. The Chairman then provided some advice to Dr. Vlak on the

general format of the Lecture. On receipt of Dr. Vlak's acceptance, the Chairman advised the Wuhan local organizing committee of the nomination of Professor Gao to be the 2006 Founders' Lecture Honoree and that the Lecture would be delivered in his honor by Dr. Vlak.

Brief biographies of Dr. Vlak and Professor Gao were requested to be sent to Dr. Lee Solter in early 2006 for publication in the Society's Newsletter. Early in 2006 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 Jim Harper for forwarding to the engrosser. The Committee wishes to thank Dr. Jim Harper for arranging the production of the certificates on behalf of the Society.

It is anticipated that Dr. Vlak will deliver the Society's 2006 Founders' Lecture in honor of Professor Gao during the Opening Plenary Session of the Wuhan meeting, and that the 2006 Founders' Lecturer and Honoree certificates will be awarded immediately after the Lecture or during the banquet.

In 2005, the President requested the Founders' Lecture Committee to consider the future composition of the Committee and to suggest any desirable changes. The consensus of the present members is that a future Committee should be small, with members appointed who will bring a wide breadth of experience and expertise to the Committee, and with international representation where possible in providing these qualities. The President may wish to seek advice from the Divisions or subject groups within the Society to ensure wide representation on the Committee. At present, the members of the Committee serve indefinite terms; the President may wish to consider overlapping, fixed terms of service when selecting new appointees.

In view of the membership changes noted in the next paragraph, it would seem opportune and appropriate to review the membership, terms and operations of the Committee.

Professors Bergoin and Ellar have indicated their wish to retire from the Committee after some years of service, and I, by far the longest serving member and Chair, think it probably is time also that I step down to make way for a successor. These sentiments were emailed to the President and to the Vice President in May, 2006.

I wish to offer my sincere thanks to David and Max for their long service on the Committee and for their diligence and co-operative spirit, which, together with those of John, have made my task of conducting the affairs of the Committee a pleasure.

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

*Professor Dudley Pinnock, Chair*

### **Publications Committee Report**

On June 30, 2006, a third edition of *An Abridged Glossary of Terms Used in Invertebrate Pathology* was published, for members only, on the SIP web site. The first two editions of this glossary were published by Edward Steinhaus and Mauro Martignoni in 1967 and 1970. An ad-hoc committee (David Onstad, Jim Fuxa, Rich Humber, Jesko Oestergaard, David Shapiro-Ilan, Vladimir Gouli, Robert Anderson, Ted Andreadis, and Lerry Lacey) supported by the Publications Committee worked on expanding and improving the glossary since September 2005. The committee added approximately

400 terms, doubling the size of the glossary. The goal was to emphasize terms that contemporary scientists would need to know to understand not only modern publications but also literature published before 1970. The glossary will be particularly useful for those teaching invertebrate pathology.

Steinhaus and Martignoni stated "this glossary, to remain useful, must be revised at regular intervals. Users are urged to address their criticism and suggestions to the compilers and to propose additional entries to be included in future editions." Therefore, members are encouraged to send new definitions or suggestions for changes to the SIP Publications Committee for review.

Submitted by  
*David Onstad, Chair*

### **Student Affairs Committee: Annual Report**

Chair: Christina Campbell  
Members: Emma Ormond and Jerry Ericsson

Progress has been slow this year for the committee. I have been in contact with the Membership committee and we are interested in collaborating for the up coming year. I have in place an outline of potential information packets for the purpose of distribution to various graduate programs in attempts to increase student membership. Unfortunately, we will not have a workshop for this year's meeting and I will be not in attendance at the meeting. I still believe that the Student Affairs committee is a valid and essential part of the Society of Invertebrate Pathology. I extend my help and support to the newly elected chair chosen by the Society.

Submitted by  
*Christina Campbell, Chair*

### **SIP History Committee Report**

Elizabeth Davidson is giving a talk on Edward Steinhaus at this year's meeting. The Founders' lecture from 2005 appeared in the JIP.

Submitted by  
*Elizabeth W. Davidson*

## OBITUARIES



**Sophie Jakowska  
(1922-2005)**

Long-time SIP member, Dr. Sophie Jakowska, Professor Emeritus of Biological Sciences, College of Staten Island, City University of New York, died December 4, 2005 at age 83. Dr. Jakowska was also a professor of biology at the College of Mount Saint Vincent and visiting Professor at Iona College. She was a research scientist at the New York Aquarium, the National Cystic Fibrosis Foundation and the U.S. Food and Drug Administration. Dr. Jakowska received her M.S. and Ph.D. at Fordham University. She was a lifelong resident of the Upper Westside of Manhattan until her retirement to the Dominican Republic where she resided with her daughter Marie Helene Jeannopoulos and son-in-law Juan Medina. She is also survived by her sons John C. Jeannopoulos, and Peter C. Jeannopoulos. Dr. Jakowska lectured worldwide and wrote extensively on environmental issues, bioethics and eco-spirituality.

## PAGES FROM SIP HISTORY

### Governance of SIP

In 1967, the first Governing Council of SIP consisted of a President, Vice-President, Secretary, and Treasurer plus four Trustees. Each of the first four officers served a two-year term. The trustees were elected for four-year terms, with two being replaced in each succeeding two-year election cycle and two continuing to provide continuity between presidential terms. In all subsequent elections, the outgoing president continued as Past-President for the next two years as a member of the Governing Council. This nine-person Governing Council

structure has remained unchanged to the present. However, in 1997, the Council, under President Brian Federici's leadership, proposed a revision in the Constitution that provided for the chairs of each Division of the Society and the Society's Executive Secretary to attend Council meetings as ex-officio, non-voting members. At that date, there were four divisions, and two more were added in 2000. Today the Governing Council consists of nine voting and seven non-voting members. In the years before e-mail, most Council work and decisions were made at the annual Council meeting, which was generally the full day before each regular SIP meeting began. All activity between meetings had to be conducted by telephone or mail correspondence. With the advent of electronic mail, Council has been able to make many efficient decisions through e-mail correspondence, opinion sharing and voting. President Kaya, in 2003-2004 actually had an electronic mid-year meeting to deal with issues and reports to Council, and this practice continues.

### The Divisions

#### Microsporidia

The SIP Constitution made provisions for divisions to be formed within the Society by groups who had interests in specific disciplines or subject areas within invertebrate pathology. The first division, the Division of Microsporidia, was approved by Council in 1970. An initial meeting of 23 scientists during the annual SIP meeting at the University of Vermont campus in Burlington, Vermont in 1969, organized by Victor Sprague with interest and support by John Kramer, J. Vavra and others discussed needs facing the field of invertebrate protozoology. They considered common issues in microsporidian identification, need to develop a directory of those interested in microsporidia worldwide, possibility of development of a symposium on microsporidia, and the need for organization of a Division of Microsporidia within the Society. An organizing committee to formulate bylaws and a proposal to submit to the SIP Council was established. Dr. Sprague served as chair with Wayne Brooks, Joe Maddox, Roy McLaughlin, Ann Cali, J. Vavra, and Y. (Joe) Tanada as members. There was some concern that the Division should be broader and include all Protozoa, but final agreement was made that issues with Microsporidia were of greatest interest and concern for the group.

At the 1981 meeting in Bozeman, Montana, a slate of officers was voted on by the members of the Division attending. The First Officers of the Division were Jim Harper (Chair), Denis Burges (Chair-elect), James Fuxa (Secretary-Treasurer), Don Roberts (Member-at-Large, one-year term), and John Cunningham, (Member-at-Large, two-year term). The Division sponsored a symposium on formulation and application of microbial pesticides at the meeting.

### **Bacteria and Virus Divisions**

It was 16 years before the next Divisions were formed. This occurred largely because President Brian Federici felt that chairs of divisions could provide an effective mechanism for representing the membership better on Council than was being done to that point with the trustee system. He encouraged the scientists with interests in each of the four pathogen groups--bacteria, viruses, fungi, and nematodes--to organize and develop divisions for this as well as for programming and other purposes.

Members with interests in viruses and bacteria held initial planning and organizational meetings at the 1995 SIP meetings in Ithaca, NY and began the process of becoming formally recognized Divisions. The virus group elected officers Norm Crook (Chair), Suzanne Thiem (Vice-chair), Just Vlak (Secretary-Treasurer), Bryony Bonning (Member-at-Large), and planned activities for their 1996 meeting in Cordoba, Spain. The bacterial group also held an initial business meeting and elected Andre Klier (Chair), Barbara Knowles (Vice-chair), Bill Moar (Secretary-Treasurer, and Sue MacIntosh and Betty Davidson (Members-at-Large). At the 1996 meetings in Cordoba, each presented Bylaws to Council which were approved, making each an official division on that date. The above officers continued to serve in this first year. The Virus Division had 135 members sign up for its first year and sponsored a workshop and a symposium in Cordoba. The Bacterial Division had 130 SIP members respond to the initial call for membership.

### **Fungus and Nematode Divisions**

An organizational meeting for a fungus division was held at the 1999 SIP Meeting in Irvine, CA. Twenty-seven members attended and agreed to the establishment of a Fungus Division. Steve Wraight was elected Chair of the organizational committee, and plans for a workshop and symposia for the 2000 meeting in Guanajuato, Mexico were discussed. At the Guanajuato meetings, the Division elected its first officers, Steve Wraight (Chair), Judith Pell (Chair Elect), Michael Brownbridge

(Secretary/Treasurer) and Travis Glare and Paresh Shah (Members-at-Large).

Also at the Irvine meeting, Itamar Glazer and Harry Kaya reported that members with interests in nematodes gathered informally to discuss formation of a nematode division. Agreement led to solicitation of names at and following the meeting using e-mail correspondence, and a list of 35 members was submitted to the SIP Executive Council. Council approved the formation of this Division and an organizational meeting was planned for the 2000 SIP meeting in Guanajuato. At the Mexico meeting, officers were elected, Itamar Galzer (Chair), Noel Boemare (Chair-elect, Albrecht Koppenhofer (Secretary/Treasurer), and Bryon Adams and Patricia Stock (Members-at-large).

Changes to the SIP Constitution and Bylaws of the Society that were approved by Council in 1999 provided for a uniform set of Division Bylaws adoptable by each Division. By using this standard document, the ease of establishing new divisions was greatly streamlined. A Constitutional change also made the chairs of each division non-voting members of the Governing Council. The impact of this was to give more direct liaison between members and Council, with a higher degree of flow of information to and from Council and membership via the business meeting of the divisions. With most members of the Society having at least one division affiliation, members now have several routes of information exchange within the Society. Programming for the annual meetings has been greatly enhanced by encouraging each division to develop one or more symposia each year. This insures timely symposia topics that are relevant to the membership along with greater balance in the programming. The Council has encouraged quality symposia through provision of funds to support speakers who might not ordinarily attend SIP meetings, but whose topics are of special interest to specific subject matter areas. The Council has also stimulated interest in cross-divisional topics by providing support for symposia proposed jointly by two or more divisions. This is particularly important for subjects that are not confined to single division interests, eg. immunity, transgenics, bioengineering, etc.

*Contributed by Jim Harper*

## MICROBIAL CONTROL

### **Novozymes Announces Acquisition**

*Novozymes Expands Product Portfolio with Efficacious Biological Insecticide for Deer Ticks, Lyme Disease Company completes acquisition of Connecticut-based Earth Biosciences, Inc.*

Novozymes today announced it has acquired a natural insecticide that may deter Lyme disease by controlling the deer tick, one of the carriers of the disease. Acquiring the insecticide came as part of the recently completed acquisition of Earth Biosciences, Inc. (EBS), which closed September 30, 2006. Novozymes will incorporate EBS into its ROOTS ® Plant Care Group.

Lyme disease is caused by a spirochete pathogen and is spread to humans by deer ticks. The infectious disease, which can cause arthritis, neurological and heart problems, is more prevalent throughout the northeastern and midwestern states of the U.S and in Europe.

In the transaction, Novozymes will also add two new alternative pesticide technologies to its portfolio. These include the insecticide *Metarhizium anisopliae* and the fungicide *Bacillus subtilis*, both naturally occurring microorganisms.

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### **Sustainable Crop Protection for Europe**

The organization representing the European crop protection industry has launched a new pan-European

campaign that promotes using crop protection products sensibly and sustainably to enhance environmental, economic, and social viability.

As recently announced by The European Crop Protection Association (ECPA), the "Sense+Sustainability Campaign" targets EU agricultural stakeholders, and emphasizes the need for teamwork between farmers and other agricultural stakeholders to foster sustainable use of crop protection products.

The program also places strong focus on encouraging sustainable use through farmer training and education, and promotes integrated farming as one of several ways for achieving sustainable crop protection.

The campaign's target group, ECPA notes, are EU agricultural stakeholders, consisting mainly of policy makers and organizations that represent farming interests and sustainability platforms. Support for the Campaign also comes from the European Landowners Organization, which represents the interests of landowners, land managers, and rural entrepreneurs.

#### Website

<http://www.ecpa.be/Sense%2BSustainability/> also available in Danish, Polish, and Greek language versions) provides more background for the underlying multiple concepts of crop protection practices that are "environmentally sound, economically viable, and socially responsible."

ECPA director general F. Schmitter said the Association realizes that sustainable use of crop protection products is a challenge requiring committed teamwork. "We take this responsibility seriously," he remarked, and ECPA will "work closely with other stakeholders in the food chain and wider agricultural community to ensure that crop protection products are used in a safe and sustainable way."

ECPA, 6 Avenue E. van Nieuwenhuysse, B-1160 Brussels, BELGIUM.  
Fax: 32-2-663-1560. Phone: 32-2-663-1550. --  
Excerpted, with thanks,  
from an ECPA press release and website.

### Risk Reduction in Canada

Canada, through its government sponsored Pest Management Centre (PMC), has inaugurated a multi-faceted, six-year, C\$16.8 million program to lower the impacts of pesticides in agriculture and the agri-food industry.

The Pesticide Risk Reduction Program / Programme de Reduction des Risques Lies aux Pesticides mandate aims to address risks to: human health; biodiversity resulting from negative effects on non-target organisms; and to air, water, and soil quality.

Current program initiatives involve increasing the availability of alternative pest management tools and practices--such as biological control that, in turn, decrease reliance on traditional pesticides, as well as strengthening awareness and adoption of IPM approaches by farmers.

A four-step process identifies priority crops, prepares profiles of selected crops, leads to development of risk reduction strategies, and encourages adoption of these strategies. The Program envisions reporting the results achieved. The PMC is actively collecting information to identify gaps in the scope of currently available pest management products.

A Pesticide Risk Reduction technical working group draws its members from federal and provincial agencies as well plus representation from industry. The group consults regularly to coordinate and integrate program activities. o-> PMC, Phone: 1-613-759-1000. Web: <http://www.agr.gc.ca/prmmup>.

*Articles reprinted courtesy of  
IPMnet News, June 2006*

### **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.

### MEMBERS ON THE MOVE



Surendra Dara has recently joined Certis USA as the Quality Control Manager. Prior to this, Surendra worked on the microbial control of the glassy-winged sharpshooter and the Western tarnished plant bug at UC Davis Shafter Research and Extension Center as an Assistant Project

Scientist. Surendra's expertise has been with various fungal pathogens and he is very excited about the new opportunity to work with virus, *Bt* and botanical products.

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Fax: 661-758-9317

### POSITIONS AVAILABLE

**Graduate Assistantships** (two) at the University of Maine are available to support outstanding students in M.S. and/or PhD programs: one in conservation genetics of an endangered butterfly and one in microbial

symbionts of invasive ants. See <http://biology.umaine.edu/index.php?page=jobs> and

<http://www.wle.umaine.edu/Grad%20Program/assitantshippositions.html> for details.

**Postdoctoral positions** (two) are available immediately for studies aimed at developing new cell lines and methods for cell line engineering. Studies will include development of new cell lines from various insect species and tissues, development of vectors for engineering existing and new cell lines via transposition or other novel means, and analysis of cell lines in a variety of

experimental applications including complementation of lethal baculovirus mutations (gene knockouts), over-expression of foreign gene products in baculovirus expression vectors, and transduction of cell lines for non-lethal expression and delivery of bio-active proteins.

Strong background in molecular biology and insect cell culture or physiology is preferred but candidates with experience with insect cell culture, physiology, or pathology will also be considered. To apply, please send full CV and names/addresses of three references to: Dr. Gary Blissard, Boyce Thompson Institute at Cornell University, Tower Road, Ithaca, NY 14853-1801. Phone (607) 254-1366. Send applications by email to [gwb1@cornell.edu](mailto:gwb1@cornell.edu)

**Postdoctoral Research Associate.** Conduct research on chalkbrood resistance in the alfalfa leaf cutting bee (ALCB) using cDNA-based microarrays at individual and population levels. The research for this project is a collaborative effort between Dr. Dennis Welker, Department of Biology at Utah State University, and Dr. Rosalind James, USDA-ARS Bee Lab, in Logan, Utah. Responsibilities include: Describe the ALCB larval immune response at the molecular level, and identify genes associated with anti-microbial peptides. Ph.D. in insect pathology or closely related field and experience in molecular biology required. Knowledge of molecular methods for constructing cDNA libraries, Northern blotting, Real-time PCR, and microarray experience preferred. Open until filled, 1st review Oct. 30. USU is an EOE/AA employer.

Contact information for applicants: Please apply online at Utah State University, and refer to job #050525.

Webpage:

<http://jobs.usu.edu/applicants/jsp/shared/frameSet/FrameSet.jsp?time=1159916192214>

You may also visit the USDA/ARS Bee Biology and Systematics Laboratory website:

<http://www.ars.usda.gov/npa/beelab>

**Postdoctoral Associate.** Insect biochemist/molecular biologist: Available immediately in the Department of Entomology, NYSAES, Cornell University. The successful applicant will join our project to study the molecular structure and function of insect peritrophic membranes (PMs), the extracellular matrix lining the digestive tract in invertebrate animals. The research will focus on the PM proteins and their functions using biochemical, molecular and physiological approaches. Qualifications: Highly motivated recent Ph.D. in biological sciences with training and research experience in biochemistry and molecular biology. Knowledge in insect physiology is helpful but not essential. Previous

experience in protein biochemistry or quantitative gene expression studies is a plus. (Cornell University is an equal opportunity, affirmative action educator and employer)

Contact information for applicants:

Ping Wang

Department of Entomology

New York State Agricultural Experiment Station

Cornell University

630 W. North St.

Geneva, NY 14456

Tel: (315) 787-2348

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E-mail: [pw15@cornell.edu](mailto:pw15@cornell.edu)

Webpage:

<http://www.nysaes.cornell.edu/ent/faculty/wang/index.html>

**Director of the Division for Ecology and Conservation Sciences,** Illinois Natural History Survey, is a senior administrator at the level of Professional or Senior Professional Scientist (full-time, state funded). We seek an individual with experience facilitating interactions and information exchange among academic researchers, natural resource agencies, and decision makers. The Director provides leadership, vision, and direction on significant initiatives, research projects, and outreach programs within the Division; manages staff and budgets; supervises research leaders and administrative staff; contributes toward developing Division and Survey research priorities; and serves as liaison to state and federal agencies, institutions, and the public to promote the activities of the Survey. Applicants must have a broad scientific background in natural resources, conservation science, or basic or applied ecology; demonstrated ability to effectively lead and manage staff; and a strong interest in public/government service. The Director is encouraged to conduct research, particularly providing leadership on larger interdisciplinary projects, and engage in other scholarly activities as time permits. A Ph.D. in biological sciences with minimum of 8 years relevant experience is required. Located on the University of Illinois Urbana/Champaign campus. Send cover letter, curriculum vitae, a statement of administrative philosophy and research interests, and contact information for five references:

Contact information for applicants:

[hroffice@inhs.uiuc.edu](mailto:hroffice@inhs.uiuc.edu) or mail to:

Human Resources Office PRF # 1468

Illinois Natural History Survey, 1816 South Oak,  
Champaign, IL 61820, Tel: 217-244-7790,  
Fax: 217-333-4949

For technical questions, please contact Ed Heske, Search  
Chair, eheske@uiuc.edu, 217-244-2173  
Webpage: <http://www.inhs.uiuc.edu>

*Applicants should note that this position is exempt from the State Personnel Code and is under the Board of Natural Resources and Conservation (BNRC) and follows BNRC policies and procedures. This is not a Bargaining Unit position nor a Merit Comp position.*

*The Illinois Natural History Survey does not discriminate on the basis of race, color, sex, national origin, age or handicap in admission to or treatment or employment in programs or activities in compliance with the Illinois Human Rights Act, the Illinois Constitution, Title VII of the 1964 Civil Rights Act, Section 504 of the Rehabilitation Act of 1973, as amended, and the U.S. Constitution.*

## POSITIONS WANTED

I am seeking a Postdoctoral position in an Invertebrate Pathology laboratory working with microsporidia and/or gregarines as model organism to study genome evolution. For the past two years I have worked as a Postdoc in a collaborative project, "Molecular ecology and Taxonomy". My project is to study the population genetic structure of the paper wasp *Ropalidia marginata* using molecular markers such as microsatellites and also assist students who are doing molecular taxonomy of microsporidia. I have isolated & characterized 84 microsatellite markers from *R. marginata*, and 40 microsatellite markers from Lac insect *Laccifer lacca*, which are being used to study the population genetics. My goal is to make a genome-wide analysis for gregarines and microsporidia. I have strong traditional as well as molecular biology experience. I will be glad to give you any further information that may need from me. Recent publications:

Johny et al. Parasitology, Vol. 132: 803-814.

Johny, S. and D.W. Whitman. 2005. Comparative Parasitology Vol. 72 (2): 150-156.

Contact information:

Johny Shajahan

Postdoctoral Fellow

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&

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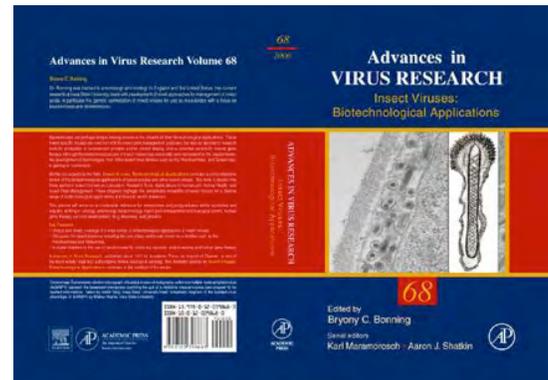
Mobile: + 91-9848714605

## PUBLICATIONS

Dear SIP Members,

I would like to bring following book to your attention.

### Insect Viruses: Biotechnological Applications



The latest issue of *Advances in Virus Research* (Volume 68) on *Insect Viruses: Biotechnological Applications* was inspired in part by an SIP Virus Division symposium on "Insect Expression Systems, Gene Therapy and Vaccine Development" held at the SIP annual meeting in 2005. In this volume, the editor, Bryony Bonning, Iowa State University has collated chapters covering (1) the use of insect viruses as laboratory research tools, (2) applications to human and animal health, and (3) use in insect pest management. In addition to the unique breadth of biotechnological applications of the baculoviruses, there are chapters dealing with related advances in cell culture systems, polydnviruses, tetraviruses, densovirus, and the use of virus-derived genes for production of insect resistant transgenic plants.

This volume retails at \$149.95, but members of SIP will receive a 30% discount from the list price.

Please quote offer code 87840 when ordering online or via Elsevier customer service.

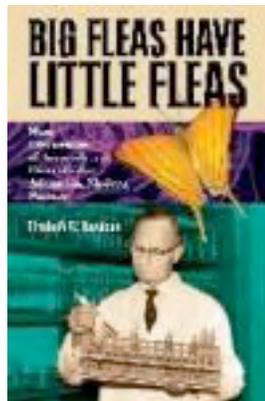
For online ordering copy following link into your web browser.

<http://books.elsevier.com/us/agbio/us/subindex.asp?maintarget=&isbn=0120398680&country=United+States&srccode=&ref=CWS1&subcode=&head=&pdf=&basiccode=&txtSearch=&SearchField=&operator=&order=&community=agbio>

With kind regards  
Johannes Jehle

**Big Fleas Have Little Fleas**  
**By Elizabeth W. Davidson**  
**University of Arizona Press, Tucson**  
**ISBN 0-8165-2544-7 paper \$17.95**  
**ISBN 0-8165-2612-5 cloth \$35.00**

Ever since Louis Pasteur saved the French silk industry by identifying a disease affecting silk-worms, scientists have focused their attention on smaller and smaller organisms. Once upon a time, the rhinoceros beetle threatened the coconut plantations of Polynesia until scientists discovered the virus that would control it. In more modern times, the first experimental vaccine for HIV was produced using recombinant baculovirus introduced into insect eggs. Meanwhile, soybeans, corn, and cotton are protected from insects by genes from one insecticidal bacterium, *Bacillus thuringiensis* — and a related strain might hold clues for combating West Nile virus and malaria. In this book, Elizabeth Davidson shares amazing stories about diseases of insects and other invertebrates important to people — and about the scientists who learned to use those diseases to control pests and create products beneficial to humans. Focusing on insect-microbial interactions crucial to public health, she tells detective stories ranging across global history, from the silkworm farms of nineteenth-century Japan to the research labs of modern America. In these fascinating accounts, Davidson shows us how human health often comes down to a contest of bug against bug. Even habitats seething with bacteria, such as the runoff from cattle farms or sewage treatment plants, are also teeming with invertebrate life — animals that,



like ourselves, have ways of fighting infection. Scientific curiosity about what allows creatures as simple as water fleas to survive in such polluted environments has led to the discovery of chemicals with remarkable properties and potential usefulness to humankind. From diseases of shellfish to parasites of bees, Davidson opens a window on a world most of us never stop to consider — but which matters to all of us more than we might ever imagine. In our present era of pandemic scares, *Big Fleas Have Little Fleas* is a sweeping historical review that's as timely as tomorrow's headlines, showing us that the most exciting discoveries can emerge from the smallest sources.

*A note from the author:*

The target audience is educated, curious citizens who enjoy unusual stories about scientists and science that impact their daily lives. The book presents stories about diseases of insects and other invertebrates that have led to important advances in human medicine or agriculture. These stories focus on scientists and how they made these discoveries. Figures are included in all chapters, including photographs of scientists and the organisms they studied. The list of chapters includes:

1. Silkworms, Pasteur and the Germ Theory of Disease
2. Of Caterpillars and Crystals: *Bacillus thuringiensis* and genetically engineered plants
3. The Virus that Cures: Viruses as caterpillar control and the Baculovirus Expression System for Genes
4. Saved by a Crab: *Limulus* Amoebocyte Lysate Assay for bacterial infection
5. Bug against Bug: Invertebrate studies leading to important concepts in immunology and new drugs
6. Cloak and Dagger: Insect parasitic nematodes and their symbiotic bacteria, leading to new drugs
7. Bad News for the Good Guys: Bee diseases and parasites and their impact on agriculture
8. Out of the Holy Land: *Bacillus thuringiensis israelensis* against malaria and other diseases
9. The Mysterious Reappearing Fungus: Gypsy Moth Disease
10. Sea Sickness: Diseases of edible invertebrates

11. Ad Infinitum: insect symbiotic bacteria and viruses and many levels of interactions
12. Concluding chapter: A timeline of scientific developments related to our stories

## PAST MEETINGS

### First Nordic course on bee diseases

The first Nordic course on bee diseases for undergraduates was held at The Royal Veterinary and Agricultural University, Copenhagen, Denmark, from Aug 6-12, 2006. The principle instructors were Annette Bruun Jensen and Jørgen Eilenberg. In addition, the team of teachers included those from colleges from the Nordic countries (including SIP members): Ingemar Fries and Eva Forsgren from Sweden; Ingeborg Menzler-Hokkanen from Finland; Per Kryger, Asger Søgaard and Flemming Vejsnæs from Denmark. During the course the participants were introduced to both fundamental and applied aspects of different bee diseases. The laboratory included 'hands on' experience. We plan to replicate the course within two years time as part of a Nordic collaboration (chaired by Heikki Hokkanen from Finland) of teaching all aspects of apidology ([www.beenova.net](http://www.beenova.net)). The courses are all held in English and are open to both Nordic and international students, although only Nordic students are reimbursed for travel and accommodation.

*Annette Bruun Jensen and Jørgen Eilenberg*



**Students check out bee hives during the Nordic Course on Bee Diseases in Copenhagen**

## FUTURE MEETINGS

### International Congress of Entomology, Durban, South Africa

We would appreciate receiving Insect Pathology-related symposia ideas for the International Congress of Entomology to be held in July of 2008 in Durban, South Africa. These can be submitted directly via the Congress website at <http://www.ice2008.org.za/Program.htm>. For additional information please contact the convenors of the Insect Pathology section: Dr. Justin Hatting (ARC-Small Grain Institute, Bethlehem, South Africa; email: [HattingJ@arc.agric.za](mailto:HattingJ@arc.agric.za) and Fernando E. Vega (Insect Biocontrol Laboratory, USDA, ARS, Beltsville, MD, USA; email: [vegaf@ba.ars.usda.gov](mailto:vegaf@ba.ars.usda.gov)).



### 2007 ISOP/PSA Meeting

**4-9 August**

**Crowne Plaza Hotel**

**Providence-Warwick, Rhode Island**

The 2007 annual meeting of the International Society of Protistologists will be held jointly with the Phycological Society of America. The meeting will be at the Crowne Plaza Hotel in Providence-Warwick, Rhode Island from 4-9 August 2007. Please check the Society website for travel awards, student awards, and periodic updates about the meeting: (<http://www.uga.edu/~protozoa/>)

In addition to our symposia and special lectures, the Society is providing support for 3-4 topic-oriented platform sessions. These are to be half-day sessions composed of 8-10 presentations (20 min each), with each session eligible for \$1000 to support participants. Individuals interested in organizing a topic-oriented platform session should submit a one-paragraph description defining the topic/theme for the talks, potential and/or confirmed speakers, and an explanation of how Society funds will be used to support the session. Proposals for topic-oriented sessions must be received by the Program Chair before 1 December 2006. Proposals will be reviewed by the Executive Committee, with selection of sessions to receive support made before 1 January 2007.

Program Chair: D. Wayne Coats

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**Linda Guarino, Van Pham, Ken Kaemmerle and David Holdom**

**Natural Enemies and Other Multi-scale  
 Influences on Forest Insects  
 IUFRO Working Party 7.03.0  
 “Integrated control of scolytid bark beetles”  
 IUFRO Working Party 7.03.06  
 “Integrated management of forest defoliating insects”  
 IUFRO Working Party 7.03.07  
 “Population dynamics of forest insects”**

9<sup>th</sup> September - 14<sup>th</sup> September 2007, BOKU University,  
 Vienna, Austria

Local organiser: Rudolf Wegensteiner,  
 rudolf.wegensteiner@boku.ac.at

**FROM THE EDITORS**

Delightful moments sometimes occur that remind us of SIP's truly global nature. While cruising down the Yangtze River on the post-meeting tour of the Three Gorges, SIP travelers were startled by shouts from one of the breakfast tables. Two participants stood up across the table from one another and then rushed around the table for an embrace. It seems that Ken Kaemmerle, spouse of SIP meeting participant Linda Guarino (Texas A&M), had taught English in a Vietnamese high school during his tour of duty. Van Pham, spouse of SIP member David Holdom (Queensland, Australia) was a 15-year-old student in Ken's class. Nearly 40 years later, they met once again over coffee on the SIP tour.

Thanks to the following members who contributed some great photos of SIP 2006: Basel Arif, Betty Davidson, Wendy Gelernter, Rose Hu & Han Dongmei, Regina Kleespies, Liu Jiping, Jeff Lord, Don Roberts, Suzanne Theim and Zong Qihau. To the rest of the participants...please send more! It is very helpful if you label the photographs with the site and names of those pictured.

The 2006 Council discussed some new ideas for Newsletter sections. One might be simple short news notes such as what new research you are doing, a new finding, or introducing a new lab member (who is joining SIP of course). If the editors receive one or more notes by February 1, 2007, we will begin to publish these. (Ideas for a good title for the new section would also be welcome!)

**Wishing our SIP family  
 A safe and joyful 2007!**

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



SIP at work.....



SIP dancing.....



SIP on the Yangtze



Top: Just Vlask's term ends with a serenade; Jean-Louis Schwartz 'noodling'; Dudley Pinnock at the altar;  
Center: Our SIP2006 Heros: Professor Yu, Dr. Zhihong (Rose) Hu, and Dr. Sun Ming; Bottom: Juan Ferré and family; Sean Marshall



# SOCIETY FOR INVERTEBRATE PATHOLOGY

## 2007 Membership Form

You may also join ONLINE at [www.sipweb.org](http://www.sipweb.org) (it's faster and easier!)

Please check appropriate box:	<input type="checkbox"/> New Member	<input type="checkbox"/> Renewal	<input type="checkbox"/> Below is New Address
First Name: _____ M.I. _____ Last (family) Name: _____			
Institute: _____			
Department: _____			
Street Address/PO Box: _____		City: _____	
State/Province: _____		Zip/Postal Code : _____ Country: _____	
Telephone: _____		FAX : _____ E-Mail Address: _____	
Very important to receive Newsletter notifications!			

### Annual Dues

January 2007 – December 2007 (All Amounts in US Dollars)

Membership: <i>(Please check one)</i>	Regular, founding and charter	<input type="checkbox"/>	\$ 30.00	
	Student <i>(Complete Certification Below)</i>	<input type="checkbox"/>	\$ 15.00	
	Emeritus or Honorary	<input type="checkbox"/>	NO FEE	
Divisions: <i>(You may check more than one)</i>	Microsporidia	<input type="checkbox"/>	\$ 5.00	
	Microbial Control	<input type="checkbox"/>	\$ 2.00	
	Virus <i>(choose one only)</i>	Student	<input type="checkbox"/>	\$ 2.00
		Regular	<input type="checkbox"/>	\$ 10.00
	Bacteria <i>(choose one only)</i>	Regular and student only	<input type="checkbox"/>	\$ 2.00
		Regular and student, <b>plus</b> voluntary support to fund Bact. Div. student travel	<input type="checkbox"/>	\$ 10.00
	Fungi	Regular and student only	<input type="checkbox"/>	\$ 5.00
Additional voluntary support for fungi division		<input type="checkbox"/>	\$ _____	
	Nematodes Student	<input type="checkbox"/>	\$ 2.00	
	<i>(choose one only)</i> Regular	<input type="checkbox"/>	\$ 10.00	
OPTIONAL	Journal of Invertebrate Pathology (special member price includes \$3 handling)	<input type="checkbox"/>	\$ 100.00	
	Canadian GST (Canadian subscribers only)	<input type="checkbox"/>	\$ 6.00	
	*Society contribution (For General Operations)		\$ _____	
	* Endowment contribution (To Support Foreign Memberships)		\$ _____	
	* Mauro Martignoni Fund (To support student travel to SIP meetings)		\$ _____	
	* Chris J. Lomer Memorial Fund (Supports attendance at SIP meetings for developing world scientists)		\$ _____	
*Contributions are Tax deductible (please check with revenue dept. of your country)		TOTAL DUES	\$ _____	

The Newsletter is available to all members via the SIP Website: [www.sipweb.org](http://www.sipweb.org). Members are e-mailed when it is available. Internet delivery of the newsletter saves the Society printing costs, mail delays and trees!

If you require receipt of a hard copy via post, please check here

#### METHOD OF PAYMENT (Check one)

<input type="checkbox"/> Check	Make Checks Payable to: <b>Society for Invertebrate Pathology. Payable in U.S. Funds only!</b> Checks must be drawn on U.S. Federal Reserve System Member Bank   Check number: _____
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Society for Invertebrate Pathology  
8904 Straw Flower Dr.  
Knoxville, TN, 37922 U.S.A.

**U.S. TAX ID: 52-6076168**

#### FAX AND CONTACT NUMBERS:

Toll Free Numbers: Telephone: 1-888-486-1505 | FAX: 1-888-684-4682  
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If paying by credit card, you may FAX your membership

#### \*\*\*STUDENT CERTIFICATION\*\*\*

I certify that the person above is a candidate for an advanced degree in a field related to the study of Invertebrate Pathology  
Institution \_\_\_\_\_ Department \_\_\_\_\_

Signature of applicant's major research advisor: \_\_\_\_\_