

NEWSLETTER

society for invertebrate pathology

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**2001 ANNUAL MEETING AT
NOORWIJKERHOUT, THE NETHERLANDS
DRAWS OVER 400 PARTICIPANTS**

The 34th Annual Meeting of the Society for Invertebrate Pathology was held August 25-30 in the coastal city of Noordwijkerhout in the western part of the Netherlands. The emergency transfer of the meeting from Israel to the Netherlands worked out very well through the effective collaboration between the Israeli and Dutch Organizing Committees, the support of Leeuwenhorst Conference Hotel and the Wageningen student crew, which helped throughout the conference. As such, this was the first bi-nationally organized meeting of our Society. As an experiment, the meeting began on a Saturday evening with a mixer and finished on Thursday morning at breakfast following the closing banquet on Wednesday evening. This format is now under evaluation to replace the usual format. The meeting attracted more than 425 delegates, including

81 students and 27 companions, from 39 countries. The collegial atmosphere that characterizes SIP meetings persisted in Noordwijkerhout.

Scientific Program. The Israeli committee under the expert guidance of Yechiel Shai took responsibility for the scientific program and scheduled three Plenary Lectures, nineteen Symposia (78 papers), sixteen Contributed Paper Sessions (128 papers) and two well-attended Poster Sessions (133 posters). The bulk of the papers dealt with insect pathogens, such as viruses, bacteria, fungi, nematodes and protozoa, but also a few field-related papers were presented. In addition, six lively divisional meetings were organized on Sunday and Monday evening, collectively finished off with a social..

TABLE OF CONTENTS

34th Annual Meeting, Noordwijkerhout, The Netherlands..	1
From the President	5
Minutes of the General Business Meeting.....	6
2001 Division Minutes.....	10
Annual Reports.....	16
Committee Reports	23
Announcements for SIP2002.....	28
Candidates for SIP Offices	29
Obituaries.....	38
New SIP Memorial Fund.....	41
News Items	41
Members on the Move	44
Positions Available	45
Positions Wanted.....	46
Future Meetings and Workshops	48
Publications	49
Letters to the Editor.....	52
Book Reviews.....	53
Editor's Notes	54

Deadline for the next Newsletter is January 15, 2002.

SIP Office

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Note: Toll Free numbers for Canada & USA only

A colorful 104-page Program and Abstract Book was produced for the conference delegates. The text was also available from the SIP website in advance.

The Founders Lecture Committee selected Dr. Wayne Brooks, Professor Emeritus, North Carolina State University, Chapel Hill, U.S.A., as the Founders Lecturer of 2001 in honor of Dr. Jaroslav Weiser, Czech Academy of Sciences, Prague, Czech Republic. His inspiring lecture was entitled: Jaroslav Weiser, Founders' Honoree, and Recent Advances in Microsporidology. A transcript will probably appear in one of the future issues of the Journal of Invertebrate Pathology. The 2001 honoree, Dr. Jaroslav Weiser, at the age of 81, was present in the audience to listen to Dr Brooks and in attendance at the banquet to accept the award.



Prof. Jaroslav Weiser, Founder's Honoree & Dr. Wayne Brooks, Founder's Lecturer, 2001.

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

Submissions to the following sections are solicited:

Forum: More substantial articles on current issues of concern, limited to approximately five pages.

Letters to the Editor: Issues of concern can be brought to light here.

Microbial Control News: Information on new discoveries, "News Releases", formation of companies, etc., pertaining to microbial control.

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

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

Deadline for the next Newsletter is January 15, 2002.

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.

Social Events. The local organizing committee arranged a vibrant social program starting with a mixer on Saturday evening with free drinks and finger-food. This gave delegates an opportunity to meet and to exchange the latest news, and to 'enjoy' the unusually warm weather. After a good rain shower on Sunday, the 5K-race was held during the Monday lunch break under perfect weather conditions. On the beach and the sand dune area near the conference hotel, a competitive course was set out to challenge over 60 participants in a variety of categories. After a boxed lunch in the bus, 200 delegates participated in the excursion Tuesday afternoon and sampled Dutch culture in the 'Zaansche Schans' with windmills, the Van Gogh Museum, and during a boat trip on the Amsterdam canals. The trip ended at the Amsterdam Zoo Artis, where all delegates met for the traditional SIP barbecue, which was 'Indonesian style'.

The meeting concluded with the traditional banquet, the dining room having been transformed into a 17th century dining room. Delegates were welcomed by the Wageningen Student String Quartet 'Poco meno mosso' Mozart style. During the intermission the Founders Lecturer awards were given to Dr. Wayne Brooks and Dr. Jaroslav Weiser. A special award was given to Dr. Joel Margalit, who discovered *Bacillus thuringiensis* var. *israelensis* 25 years ago. All prize winners (student travel awards, poster and presentation awards, 5K awards) were applauded and all organizers received a small token of appreciation. The banquet, including entertainment by a local brass band, evolved into a dance party lead by the Daylight SuperBand until the early hours.

Financial status. Due to the larger number of delegates than anticipated and excellent financial support from our sponsors, the meeting is expected to make a small profit.

Sponsors. The organizing committee of SIP2001 is very grateful for the financial and logistic support of institutions and corporate sponsors, the latter organized by the SIP Ad-hoc Fund-raising Committee. Corporate sponsors included AgraQuest, Aventis, Becker Microbials, Certis, Dow AgroSciences, DuPont, EcoSmart, Koppert Biological Systems, Monsanto, Pioneer, SHB Scientific Enterprises, Syngenta, Valent BioSciences, Wageningen University & Research Center.

Student Awards. Students contributed many outstanding presentations at the annual meeting. We are proud to present the 2001 award winners, selected from among 25 poster and 29 paper presentations. Cash awards were made to winners at the banquet. We commend and congratulate each and every one of the participants!

Martignoni Student Travel Award

The first annual Mauro Martignoni Student Travel Award was presented to Italo Delalibera Jr. of Brazil. Italo received his B.S. in agronomy from the Escola Superior de Agricultura of Lavras, Minas Gerais and M.Sc. in entomology from the Escola Superior de Agricultura Luiz de Queiros of Piracicaba, São Paulo. He is currently conducting his dissertation research at Cornell University in Ithaca, New York in collaboration with Ann Hajek.

Italo's paper presented at the Noordwijkerhout meeting titled *Long-term implementation of classical biological control using a mite pathogenic fungus in Africa: From exploration to detection of establishment* was also an award winner in the student presentation contest. We applaud Italo for his many excellent contributions to basic and applied mycopathology and look forward to seeing him at many future SIP meetings.



Italo Delalibera
Winner Martignoni Student Travel Award, 2001

Poster Presentations:

First Place: **Dror Avisar**, Tel Aviv University, Israel. *Interaction of CryIC separate domains with Spodoptera littoralis gut membrane vesicles.*

Second Place: **Aissa Doumbouya**, University of Florida, Gainesville, USA. *Genetic organization of the HindIII-D fragment of the single nucleocapsid nucleopolyhedrosis virus of Neodiprion sertifer (NsSNPV).*

Third Place: **Vadim Khasdan**, Ben-Gurion University, Be'er Sheva, Israel. *Toxicity and synergism in recombinant Escherichia coli expressing Cry and Cyt from Bacillus thuringiensis subsp. israelensis.*

Paper Presentations:

First Place: **Mark Freeman**, University of Stirling, Scotland. *First report of a new protozoan hyperparasite infecting the salmon louse, Lepeophtheirus salmonis (Krøyer, 1837): a phylogenetic study based on ribosomal DNA sequences.*

Second Place: **Robert Ouedraogo**, Laval University, Quebec, Canada. *Influence of thermoregulation on phagocytosis and blastospores in mycosis of the migratory locust by Metarhizium anisopliae var. acridum.*

Third Place: **Italo Delalibera**, Cornell University, Ithaca, New York, USA. *Long-term implementation of classical biological control using a mite pathogenic fungus in Africa: From exploration to detection of establishment.*

Many thanks to the great 2001 team of judges: Jimmy Becnel, Mike Bidochka, John Burand, Travis Glare, Trevor Jackson, Stefan Jaronski, Albrecht Koppenhoffer, Nguya Maniania, Paresch Shah, Ian Smith, John Vandenberg, and Jeroen Van Rie.



2001 Student Award Winners at Noordwijkerhout



5K Race. This year's race was set out in the Dutch dunes bordering the North-Sea near Noordwijkerhout. The runners began the race on the sunny beach, climbed a dune, and continued along small paths in the beautiful dune landscape.

Male under 35:

1. Jesko Oestergaard	18.59
2. Hendrik Marks	20.21

Male over 35:

1. William Meikle	19.39
2. Gerry Carner	19.45

Female under 35

1. Annette Jensen	25.48
2. Charlotte Nielsen	27.13

Female over 35:

1. Lorena Passarelli	24.50
2. Susanne Vestergaard	25.26

(Overall winners indicated in bold type.)

We lost only four runners this year, who may have been distracted by the natural beauty on and along the beach but who finally found their way back to the hotel after *more* than 5K. We would like to thank all runners and walkers for their efforts and enthusiasm, and the volunteers who helped to make this year's race a successful event.



5K Race Winners



Local Organizing Committee. This meeting would not have been possible without the efforts and dedication of many individuals: Jos Dortmans, Marjolein van Esschoten, Arwen Florijn, Rob van Haarlem, Maurice Henquet, Mariëlle van Hulst, Stephen Kaba, Sehaam Khan, Hendrik Marks, Ruben Martherus, Melanie Mennens, Monique van Oers, Dick Peters, Meintje Peters, Gorben Pijlman, Angela Vermeesch, Ellen Vlak, Marcel Westenberg, Jeroen Witteveldt and Douwe Zuidema. The support of the local staff of the conference was invaluable for the success of the meeting.

Meir Broza & Just Vlak
Co-organizers SIP2001



FROM THE PRESIDENT

The 34th Annual Meeting of the Society is now behind us, and what a great meeting! The Israeli-Dutch meeting came off in all respects as a

resounding success. My thanks go to so many people who worked extra hard this year to plan and carry out this special meeting. The scientific content of the meeting was excellent and impressive in both quality and quantity. All of our members who gave invitational presentations, submitted papers and posters, and participated in the student competitions did a great job. Much of the program excellence can be attributed to the Israeli Organizing Committee with Meir Broza as Chair and Yechiel Shai as Program Chair. The well rounded program was in large part due to this committee's work in organizing the symposia from Division recommendations and in developing special program symposia as well. Yechiel's skill in organizing the program to prevent conflicts in the concurrent paper sessions were evidenced by the almost total lack of complaints from members on this issue during the meetings.

The Dutch Organizing Committee did a fantastic job with local arrangements. The facility, The Golden Tulip Conference Hotel Leeuwenhorst, and the town of Noordwijkerhout, The Netherlands, provided an excellent venue for member interactions. By having essentially everyone housed in the same facility, the meeting tended to be more relaxed and productive than is often the case when time is spent traveling between several different accommodation sites. Special thanks go to Just Vlak for developing the venue, chairing the Local Organizing Committee and overseeing the organization of a myriad of issues and details. The program ran extremely smoothly, and everyone I talked with had only praise for all aspects. I also want to express special thanks to Dick Peters and to Meintje Peters for their really great efforts in helping everyone with special registration problems and many other special needs, problems and issues. Meintje was a great host for the accompanying persons program, and made the meeting an extra special one for them. The social portions of the program, with opening mixer, Tuesday afternoon outing to Amsterdam and Zaanse Schans, evening buffet at the Zoo, and the great banquet and dance on the final night, were all very special.

Several innovations were made in the program this year. The meeting began on Saturday evening rather than Sunday as usual. The final half morning of concurrent sessions was eliminated and the meeting ended with the evening banquet on the fourth full day of concurrent sessions. This schedule necessitated having extra concurrent sessions and

rescheduling the 5-K race in order to fit everything into the shortened meeting. The Meetings Committee will be interested in knowing how attendees feel about these changes and whether they should be incorporated into future meetings.

I am very pleased that we were able to award the first Mauro Martignoni Student Travel Award this year which went to Italo Delalibera. Please see writeups in this newsletter on the presentation of the award. I wish to thank all Society members who have contributed to this endowment, initially established with funds from Mauro Martignoni's will, so that we can continue to provide this award indefinitely. If the fund continues to grow, we may someday be able to make multiple awards. It is a great pleasure to be able to see support from this endowment and several of our divisions providing financial encouragement to our student members through a healthy competitive process. I encourage all students to consider making applications for these various travel fund opportunities next year. Instructions for doing so will be found in this issue.

You will see from reports in this newsletter that all of our standing committees as well as our *ad hoc* and continuing committees have been very busy and productive during the past year. The Nominating Committee has provided us with an excellent slate of candidates, and I especially urge each of you to vote this year. If you are interested in serving in a leadership capacity for the Society in the future, please contact a member of the nominating committee or the officers of your division(s).

Plans are now well underway for the combined 2002 35th Annual SIP Meeting, VIIIth International Colloquium on Invertebrate Pathology, and VIth International Conference on *Bacillus thuringiensis* to be held in Iguassu Falls, Brazil. Flavio Moscardi as chair of the Local Arrangements Committee, has his group working hard to provide another great venue for us. This should be an exciting meeting, the first SIP meeting ever to be held in South America. It will be a great opportunity to interact with and enjoy the hospitality of our many student and regular members from Latin America in a setting that will be conducive to an excellent scientific program coupled with the backdrop of one South America's great natural wonders, the Falls of Iguassu. I hope to see you all there!

Jim Harper

MINUTES OF THE GENERAL BUSINESS MEETING, AUGUST 29TH 2001 NOORWIJKERHOOT, THE NETHERLANDS

The SIP Business Meeting was convened by the President of SIP, Dr. James Harper, in the Rotonde Auditorium of the Golden Tulip Conference Hotel, Leeuwenhorst, Noordwijkerhoot from 11:00 am until 12:30 pm. Approximately 60 members were present. Summaries of the reports are provided below.

At this meeting, the President informed members that five members of the Society have died since our last meeting in Guanajuato. They are Thomas C. Cheng, Tadeusz J. Poprawski, Wladimir A. Smirnoff, Clarence G. Thompson, and Hitoshi Watanabe. He invited members to stand for a moment of silence to pay respect to these Members, who have contributed so much to our Society.

In his **President's Report**, Dr. James Harper reported and discussed:

The issue of the change of venue for the 2001 meeting from Israel to the Netherlands. He gave special recognition to Just Vlask for accepting the role of Local Arrangements Chair and for doing an outstanding job. He also gave special thanks to Meir Broza for his leadership in developing the meeting for Israel and for continuing to lead the Israeli Program Committee whose fine work was also recognized. Yechiel Shai was thanked for his excellent work in developing the final programming document and arrangement of the sessions.

Dr. Harper expressed appreciation to the many corporate sponsors who contributed to the success of the meeting through their donations.

The first **Mauro Martignoni Student Travel Award** was awarded this year. The \$5,000 bequest from Dr. Martignoni in his Will, along with donations from members, have provided an endowment of over \$8,000 which has earned interest for the award and will continue to do so indefinitely. In addition, the Society will continue to seek additional donations for the endowment to ensure that it can provide the needed income for the award.

An Ad Hoc Committee, **The SIP Fund-Raising Committee**, chaired by Wendy Gelernter, with members Sue MacIntosh and Juerg Huber was

appointed to develop a procedure for seeking funds for support of SIP meetings. This will avoid problems encountered in the past involving confusion between "Division" and "General Society" fund-raising activities. This committee has done an excellent job and has successfully put their recommendations into practice this year.

The Council's action to put \$7,000 into **Program Enhancement Funds** for the 2001 meeting was discussed. Of this, \$1,000 has been allocated to each Division and \$1,000 to the General Program Committee to support non-SIP members' travel to meetings to present information in symposia. The same support will be provided for the Brazil meeting in 2002.

There are now six **Divisions**, with the Fungal Division and the Nematode Division becoming fully functional in the past year. These new Divisions have become an important part of the Society and its annual meeting activities.

Not all the Society's standing committees made formal presentations at the business meeting, however detailed reports are printed in this Newsletter.

Dr. Harper expressed special thanks to our **Executive Secretary**, Peg Rotstein, for another year of excellent service to the Society. Peg has put in many hours of hard work in maintaining and improving the smooth operation of the Society. Other than some issues with member subscriptions to the Journal of Invertebrate Pathology which are largely beyond her control, and which she has worked to resolve, the business of the Society has progressed well.

The Treasurer (Michael McGuire) reported that it had been a good year for the Society. Only 36% of the annual operating costs were covered by dues, however the Fund Balance is healthy due to the good profit made by the Guanajuato Meeting. A detailed breakdown of the General Fund balances is shown in the Treasurer's report in this Newsletter.

The General Fund:

Total Revenue	\$47,8887
<u>Total Expense</u>	<u>\$39,180</u>
Net Revenue	\$8,707

The Martignoni Fund stands at \$8000.

Mickey stressed that the Newsletter costs were the Society's major expense and encouraged members to subscribe to the Newsletter online to help reduce expenses.

In the **Auditor's Report**, Terry Couch reported that he had reviewed the Treasurer's report prepared by Michael McGuire, in conjunction with Ted Andreadis and Wayne Brooks, and stated that it appeared to accurately reflect the financial condition of the Society. The report indicated that the Society is in good financial health with an adequate surplus.

From the floor, Baruch Sneh requested that the Meeting Organizing Committee should consider reimbursing the Israelis for expenses incurred by changing the venue for the 2001 meeting from Israel to the Netherlands if a profit is realized from the meeting registration.

The Secretary, Doreen Winstanley on behalf of Margaret (Peg) Rotstein presented the **Executive Secretary's Report**. The report is published in full in this issue of the Newsletter (see Annual Reports).

Mark Goettel, chair, **Meetings Committee**, reported that the committee includes Mike Adang and Brian Federici as members. The past year was very busy with the difficult decision to move the meetings from Jerusalem to an alternate venue. Mark thanked Just Vlak and Doreen Winstanley and their committees for putting together two excellent proposals at very short notice. Taking all things into consideration, the Meetings Committee recommended the Dutch venue to Council. Plans for future meetings are detailed in Mark's report (Committee Reports).

The Chair of the **Local Arrangements Committee for the Noorwijkerhooft Meeting** (Just Vlak) reported that there had been an excellent collaboration with our Israeli colleagues, especially Meir Broza. The conference centre was booked for 350 members and there were a limited number of single rooms. There were 420 registrants who paid fees, with exception for the slide projector team. Sponsorship funds were acquired as a backup but it is anticipated that the meeting will break even. From the floor, Denis Burges suggested that the meeting organizing committees in future be given some collateral to allow them to overspend in the early stages of preparing a meeting, e.g. for payment of deposits on venues.

VIII ICIPMC AND VI ICBt Meeting of SIP. The Chair, Flavio Moscardi, gave a progress report on preparations for meeting to be held in **Foz do Iguassu, Brazil, August 18-23, 2002.** The organizing committee has secured the venue for the meeting, the Bourbon Hotel, a conference hotel with excellent accommodation and meeting facilities.

Organizing Committee:

Chair–Flávio Moscardi, moscardi@cnpso.embrapa.br
 Co-Chair– Sérgio Batista Alves,
 sebalves@carpa.ciaagri.usp.br
 Treasurers – Alfredo O.R. Carvalho– for the
 Entomological Society of Brazil (SEB) and
 João Armelin Filho– for Embrapa Soja

The **Scientific program** will be assembled by the Chair as well as the Subcommittees responsible for the program of each of the Divisions that make up the Scientific Program Committee. Members are invited to contact the committee regarding contributions to the development of the program.

Scientific Program Committee:

Chair– Bonifácio P. Magalhães,
 boni@cenargen.embrapa.br

SubCommittee Chairs

Fungi - Daniel R. Sosa Gómez , drs38@cornell.edu
 Viruses– Marlinda L. de Souza –
 marlinda@cenargen.embrapa.br
 Bacteria and ICBt – Olívia Arantes –
 arantes@uel.br.
 Microsporídia – Armando Castelo Branco Jr.
 Nematodes – Marineide M. Agillera
 Microbial Control – Pedro M.J.O. Neves
 pmjoneve@uel.br

John Burand (Chair of the Organizing Committee, 2003) reported that the SIP meeting to be held in Vermont will be held either in early August or late July at the University of Vermont and will be a campus based meeting.

In his **Nominating Committee Report**, Bob Granados explained that the committee was in the process of assembling a slate of nominees and was consulting potential nominees at the current meeting. Dr. Granados asked members to inform the Nominating Committee if they wish to serve the Society as an officer. To nominate an individual for a position, names must be submitted to the

Executive Secretary by October 1st 2001. It was emphasized that ten SIP members in good standing can nominate any willing member.

Bacteria Division: Alejandra Bravo presented the report. The Division now has 109 members; 40 members were present at the business meeting. In 2001, Dr. Bravo completes her term as chair of the Division. Also, Dr. Armelle Delecluse and Dr. Ray Akhurst completed their terms as Secretary/Treasurer and Member at Large, respectively. Dr. Roger Frutos will continue one year as Member at Large. The chair-elect for the Division is Dr. Jean-Louis Schwartz .

Elections: Dr. Juan Ferre was elected as Vice Chair, Dr. Christina Nielsen LeRoux was elected as Secretary/Treasurer, and Dr. Didier Lereclus was elected as Member at Large. Each will serve in these positions for two years.

Student Award Committee: Dr. Ruud de Maagd and Dr. William Moar were elected to participate in the Student Award Committee for 2002.

Workshop: A discussion about ethics and legal concerns of transgenic plants will be prepared to be held during the Bacteria Division business meeting in 2002. Dr. William Moar will help in the organization of this workshop.

Symposia for the SIP Meeting 2003: The following suggestions were proposed:

Symposium I: Genomics of entomopathogenic bacteria
 Symposium II: Bacterial symbiosis.

Microbial Control Division. Lerry Lacey, Chair, expressed his concern that the Division membership is steadily declining since the creation of new Divisions. This has resulted in a drop in revenue for the second year running. In an attempt to boost revenue a CD has been produced of the Microbial Control Slide set.

The result of elections were as follows:

(Wendy Gerlernter, Chair-elect, becomes Chair)
 Chair-elect Jeff Lord
 Secretary-Treasurer: Maureen O'Callaghan
 Member at Large: Chris Lomer (deceased)
 A New Member at Large will be selected.

The MCD workshop, "New Products and Technologies in Microbial and Biological Control", was organized and convened by Amos Navon and Wendy Gelernter and followed the business meeting.

The MCD sponsored symposium for 2001, "Assessment of environmental safety of biological insecticides", was organized and convened by Chris Lomer and Heikki Hokkanen. Program enhancement funds were used to enable the participation of at least one of the speakers.

Microsporidia Division. The report was presented by James Becnel.

The Division sponsored a symposium for 2001, "Microsporidia-Fungi Connection", which Jimmy organized and convened. Program enhancement funds were used to enable the participation of one speaker.

The Microsporidia Division workshop, "Fear No Microsporidia: Guidelines for Mass-Rearing Insects and other Arthropods", was organized and convened by Rudolf Wegensteiner, and took place following the business meeting.

Dr. Victor Sprague (deceased) updated his database on all genera of microsporidia which should be available on the website by late fall 2001.

Virus Division: Ian Smith presented the Virus Division report.

The current officers are:

Chair - Ian Smith

Chair Elect - John Burand

Secretary/Treasurer - Martin Erlandson

Members-at-Large - Primitivo Caballero and David O'Reilly (elected at this meeting to replace Yoshifumi Hashimoto)

A Virus Symposium on Apoptosis was organized in honour of the late Lois K. Miller, and Paul Friesen was presented with a certificate (designed by Peter Krell) to commemorate his Plenary Lecture on apoptosis.

There were 99 oral presentations on viruses, additional posters presented and three symposia. The Society covered registration of two speakers in Symposia.

Currently there are 138 members. The Division Funds stand at \$2230. The secretary/treasurer will update and maintain the Division's website.

Six applications were received for the first Virus Division Student Travel Grant. Christina McCarthy (Universidad Nacional de La Plata, Argentina) was selected as the winner by the Executive Committee and presented with a grant of \$200 at the banquet. The Division membership fee will be raised from \$3 to \$10 for full members and will remain at \$3 for students. The dues increase is specifically intended to enable the Division to provide more support for students attending SIP meetings.

Fungus Division. In his Division report, Steve Wraight stated that he was pleased to announce a 30% increase in membership - from 93 initial members in 2000 to 121 in 2001. They have kept dues low (\$2 per year).

There is a balance of \$374.00 in the Division account (ending 4/30/01), obtained exclusively from annual dues.

The \$1000 granted from the SIP general fund for support of symposium speakers at the Guanajuato meeting was used in entirety. It reimbursed speakers invited to participate in a symposium entitled, "Development of entomopathogenic fungi as biocontrol agents in Mexico and Central America".

Stefan Jaronski (chair of an Ad Hoc committee) is leading efforts to establish a Fungus Division Webpage in 2002.

The Division has worked closely with the 2001 Noordwijkerhooft Program Committee to select three fungus symposia covering a broad range of topics in basic and applied mycopathology. There were 28 contributed papers on fungi in four sessions and 32 fungus posters.

One new Member at Large, Richard Humber, was elected.

Nematode Division: The report was presented by Itamar Glazer.

At the meeting there were three Symposia, two contributed oral presentations and 20 posters.

There is currently \$150 in the Division Fund.

Three members were elected to the Awards Committee.

Doreen Winstanley, Secretary

2001 DIVISION MINUTES

Report of the Bacteria Division Meeting

The new officers for the Bacteria Division will be Dr. Jean-Louis Schwartz, Chair, Dr. Juan Ferre, Vice Chair, Dr. Christina Nielsen LeRoux, Secretary/Treasurer, and Drs. Didier Lereclus and Roger Frutos, Members at Large. The account balance (4/30/01) for the Division was \$1,030. The membership fee remains US \$2.

Dr. Trevor Jackson and Dr. Jeroen Van Rie were elected to participate in the Student Award Committee for 2001. The Division members agreed to make a donation of \$200 to the SIP Martignoni Student Travel Award in order to support students travel expenses in 2001.

Dr. Yasunori Nagamatsu from Japan will receive \$1000 USD support from SIP as speaker for his participation in the 'Novel Receptors for Insecticidal Toxins' symposium with a presentation entitled "Bombyx mori protocadherin receptor for Bt CryIA toxin".

During the 34th SIP meeting 2001 we organized four Symposia:

Symposium I: "*Bti, 25 years to its discovery*" organized by Dudley Pinnock. Brian Federici will prepare a plaque to honor Dr. Margalit.

Symposium II: "*Diverse insecticidal proteins produced by Bacteria*" organized by Jim Baum.

Symposium III: "*Bacterial systematics and ecology*" organized by Dr. Trevor Jackson.

Symposium IV: "*Novel receptors for insecticidal toxins*" organized by Alejandra Bravo.

Alejandra Bravo, Chair

Report of the Fungi Division Meeting

Auditorium, Golden Tulip Conference Hotel Leeuwenhorst, 33 people attending. The Chair, Steve Wraight, called the meeting to order at 22.00 hr on August 26, 2001. Secretary Michael

Brownbridge was unable to attend, and Chair-Elect Judith Pell agreed to take the minutes.

Annual Report for the Division: There are now 121 members in the Fungus Division. This represents a substantial increase from 93 last year. The ending balance (4/30/01) for the Fungus Division account was \$374.00, all acquired through membership dues.

The Annual Meeting Programme Committee approved three fungal symposia for this year's meeting .

1. "*Fungal Biocontrol of Tropical Insects*" organized by Fernando Vega and Nguya Maniania
2. "*Evolution and Function of Entomopathogenic Fungi*" organized by David Chandler
3. "*Mycopathogen Stability Enhancement*" organized by Jeff Lord

The Division congratulated mycopathologists Melanie Filotas (Cornell University) and Jarrod Leland (Virginia Tech) who won student presentation awards at the 2000 meeting in Guanajuato, Mexico.

New Member at Large: Jorgen Eilenberg, Rich Humber, and Stefan Jaronski were nominated for this post; Rich Humber was elected. There was some discussion about the duties of Members at Large, which were summarized as: providing assistance in selection of symposia, evaluation of student presentations, potential involvement in judging students competing for Division travel awards, and development and maintenance of the Division WebPage (see below). Members at Large may also be called upon to contribute to the decision-making processes associated with various issues confronting the Division.

Next Meeting at Iguassu Falls, Brazil: It was noted that the Programme Committee for the 2002 meeting includes fungal pathologists Bonifácio Magalhães and Daniel Sosa Gómez from Brazil. Bonifácio was present and reported that each Division will have the opportunity to organize three symposia or two symposia and a workshop. There will be \$1,000 available from the Council for speaker travel costs, and this is now available to SIP members as well as non-members.

Symposia: Ideas for fungal symposia were solicited, and it was requested that these be submitted to the Division Chair, Steve Wraight, by *November 15th* to allow for selection by the Division Officers and submission to the Programme Committee by *January 15th* for final selection by *March 15th*. A number of suggestions have already been received, including: 'Genetic structure of entomopathogenic fungal populations', 'The gap between molecular and classical taxonomy', 'Fungal culture collections', 'Alternative uses of entomopathogenic fungi and their metabolites', 'Microecology of entomopathogenic fungi', and 'Host - fungus interactions at the molecular level'. Suggestions for symposia must be 'championed' and supported by a brief, written description of the symposium and suggested speakers. Symposia on subjects relevant to Brazil, the host country, would be of particular interest.

Workshop: Rich Humber suggested that a Workshop (dry lab) to discuss isolation and/ or preservation techniques for fungi would be extremely useful and that he would be willing to organize this. He suggested that those attending would be invited to present their methods, which would stimulate interaction, discussion, and exchange of ideas. Timing of the workshop could be the Friday morning of the last day, or the Saturday or Sunday before the meeting, as long as it is advertised well ahead. It was noted that a Sunday workshop would conflict with the Council meeting. Discussion led to the suggestion that such a workshop could not only be interactive, but that leaflets, handouts, or a CD summarizing the workshop could be produced and made available to the workshop attendees and contributors and then sold to others after the meeting, with the price discounted for students. A charge to cover the expenses of the workshop would be made which would not deter attendance and perhaps even encourage it. If successful, this could develop into a regular event with broad or narrow subject areas for discussion, e.g., 'how to make single spore isolations' or 'how to assess dose' etc. which would also provide an income from the sale of CDs etc. John Vandenberg moved that Rich Humber develop an instructional/ interactive workshop to be held at the beginning of the Brazil programme and this was seconded by Don Roberts and agreed to unanimously by those attending.

An alternative suggestion was that a workshop/

roundtable discussion could be held after the business meeting (in the same way as the Microbial Control Division holds their workshops). This could be a useful forum for students to discuss research problems, etc., and interact with more senior researchers. An additional possibility would be to conduct a day-long workshop similar to one organized recently by Jorgen Eilenberg. This involved the organizer dividing the participants into groups with mixed levels of expertise and experience, providing each group with references on a particular subject (e.g., sampling techniques), and then allowing them to spend several hours discussing amongst themselves and answering specific questions about the papers. One member of each group then presented the conclusions of their group to all attendees followed by further discussion. It was moved that John Vandenberg will discuss the potential of more intense workshops such as these with those who have been involved with them and present his findings at the 2002 business meeting.

Budget and Fund Raising: Currently the Division has limited funds (only \$374), and the members in attendance expressed a desire to substantially increase this amount in order to support student travel awards and possibly other activities. One suggestion from the Chair was to raise the membership dues. This idea was not pursued.

A second suggestion by Paresh Shah was to produce and sell a slide atlas of fungi, preferably on CD. There was considerable discussion on whether a market exists for another CD, especially given the recent CD produced by the Microbial Control Division (MCD). Mark Goettel commented that there are actually very few images of fungi on the MCD CD and, in particular, none related to ultrastructure or disease diagnosis. It was thus concluded that there is scope for another CD, especially as these images are useful to those who teach. Jorgen Eilenberg felt that it would not be difficult to obtain the necessary number of images and that some 'thumbnail' images could be put on the web as an advertisement for the CD. It was noted by Ray St. Leger that fungi pathogenic against animals other than arthropods could be included to reach a larger audience. Production costs were deemed acceptable. Jeff Lord described the costs of the MCD CD as \$2 for the CD plus 6 hours of labor to scan 200 images and a further 6 hours to add links and edits. Also discussed was whether the images

should be offered free or for sale on the web and who would be responsible for soliciting and selecting images and making the CDs if the project went forward. John Vandenberg moved that Paresch Shah organize such a slide atlas over the next two years for subsequent sale. This was seconded by Mark Goettel.

A third idea discussed was charging for the workshops described above. A fourth suggestion from John Vandenberg was the sale of fungi-associated paraphernalia such as t-shirts etc. It was confirmed by Jim Harper that if a very promising fund-raising project were proposed, a loan from the Council would be possible.

WebPage: The development of a Fungus Division WebPage by Stefan Jaronski, in collaboration with SIP Executive Secretary Peg Rotstein, is still underway. The function of the WebPage was discussed. There was general agreement that its main purpose will be to serve the members by posting information about the Division (potential symposia, available officer positions, etc) and providing a forum for the interchange of ideas. However, it was also proposed that it could be used to improve public understanding of mycopathology. Hyperlinks to other sites (including the sites of Division members) would be possible, and articles and images of fungi could be included. Stefan reported that Sam Elliot offered to put together an abbreviated version of his 'entomopathogenic fungi as bodyguards' hypothesis for the WebPage to stimulate discussion. Ideas for subjects to be included on the WebPage were requested and a website committee established to assist Stefan. The committee will include Stefan Jaronski, Steve Wraight and the Division Members at Large. Mike Griggs who has experience with WebPages development would also be approached for help. All material would be collated for incorporation into the SIP WebPage by Peg Rotstein.

Other Business: Steve Wraight encouraged members of the Fungus Division to also join and maintain membership in the Microbial Control Division. He emphasized that a very close relationship exists between the two Divisions, as many mycopathologists are involved with development of fungi for microbial control applications. Representing the Endowment and Student Award Committee, Steve also called for nominations of invertebrate pathologists from developing countries

for endowed SIP memberships.

Jeff Lord moved to adjourn the meeting and this was seconded by Stefan Jaronski.

Judith Pell, Chair Elect

Microbial Control Division Report

The total balance of the MCD account (April 30, 2001) is \$6,116.00.

Chair Lacey noted the negative revenue and encouraged all present to check the MCD membership box on the SIP renewal form whether or not they are members of other divisions.

Student Travel Awards: Stefan Jaronski, Student Award Committee Chair, read the report and introduced the winners. The MCD received nine high quality applications from six countries for the \$500 student travel awards. The awardees were Melanie Filotas of Cornell University and Robert Ouedraogo of Laval University. Members of the Committee would like all members of the Society to publicize these awards and encourage graduate students working in insect pathology to apply for funding to attend the 2002 meeting. Chair Lacey mentioned that we have supported two awards per year based on a larger membership, and new sources of funds are needed to continue without depleting the MCD treasury.

MCD Symposium and Workshop: Wendy Gelernter reported on this year's Microbial Control Division symposium and solicited proposals for next year's symposium. The symposium 'Environmental Impacts of Microbial Pesticides' was organized by Heikki Hokkanen and Chris Lomer. It is to be the basis for a book published by Kluwer. The workshop has twelve speakers working with microbial pesticides from both industry and the public sector. A mixer that is co-sponsored with the Nematode and Microsporidia Divisions follows it.

Elections: The officers had assembled the slate of candidates for the three open offices. There were no new nominations from the floor. Those elected were Chris Lomer, member-at-large, Maureen O'Callahan, Secretary-Treasurer, Jeff Lord, Chair-elect. Wendy Gelernter assumed the Chair.

Microbial Control CD-ROM: Chair Lacey announced the production and sales offering of the 1992 microbial control slide set on CD-ROM. Jeff Lord scanned the images, Stefan Jaronski indexed them, and Wendy Gelernter put in the thumbnail sketches and had CDs reproduced. They were priced at \$30 for meeting sales and \$35 thereafter. By the Division meeting time, sales covered the production costs.

Membership: Chair Lacey brought up the problem of declining membership and possible confusion over the permissibility of belonging to more than one SIP division. On the suggestion of Denis Burges, Jeff Lord is to request that Peg Rotstein make an addition to the membership form stating that SIP members may belong to more than one division.

2002 Symposium and Workshop: Wendy Gelernter announced that next year in Foz do Iguacu, MCD would again sponsor a symposium and a workshop, and we solicited topic suggestions. Two suggestions have been made, the use of biopesticides in potato IPM, emphasizing Latin America, and the use and production of biopesticides in Latin America. Further suggestions of topics and potential speakers should be e-mailed to Lerry Lacey (llacey@yarl.ars.usda.gov) to be passed on to the other officers for discussion and a decision by early next year. The workshop will be handled in a like manner. The workshop is open to a change in format and should run 1.5-2 hr. Denis Burges inquired whether we should be limited to one symposium. Lerry Lacey stated that one was the minimum, and we can work with Flavio Muscardi and Bonifacio Magalhaes up until the closing date in March. Trevor Jackson suggested that a more in-depth workshop might be held on the Friday after the meeting. John Vandenberg stated that each division is allotted two session choices. Ours are the workshop and symposium. Each division chair is on the program committee and can recommend other microbial control related symposia. Accordingly, it is desirable to receive several symposium proposals. Further, a Friday workshop would not be included in the two MCD sessions.

Denis Burges brought up the issue of continued support of two student travel awards. Lerry stated that the proceeds of CD sales would ensure that there would be enough for next year and that the subject would be revisited during the 2002 meeting.

John Vandenberg suggested that the subject be made an agenda item for discussion and vote in 2002.

Chair Lacey recognized the contributions of fellow officers and turned the chair duties over to Wendy Gelernter. John Vandenberg motioned to adjourn; Wendy Gelernter seconded. The motion carried.

Jeff Lord
Secretary-Treasurer

Microsporidia Division Meeting Report

The annual business meeting of the Division on Microsporidia was held at 8 pm on August 27, 2001 at the 34th Annual Meeting of the Society for Invertebrate Pathology in Norwijkerhout, The Netherlands. Fifteen members were present.

The minutes of the 2000 Business Meeting were published in the SIP Newsletter 33(3) in November 2000. Jimmy Becnel motioned to accept the 2000 minutes. The motion was seconded by Ted Andreadis and unanimously accepted.

The Chair reported that the Division has US\$ 1,847 in the account and currently has 59 members. New officers were elected at the 2000 Meeting in Guanajuato and will remain in office for another year.

Student Travel Award: An increase of the amount for the student travel award was debated. Ann Cali motioned to support one student with US\$500 to attend the 2002 meeting in Brazil. Lee Solter seconded, and the motion was unanimously accepted. Jimmy Becnel suggested that Lee Solter and Ted Andreadis should organize reviewing the papers submitted for the award.

An increase in annual dues for the Division in order to have more money available to support student travel awards was discussed. Ted Andreadis motioned to raise the annual dues for the Microsporidia Division to US\$5. Ann Cali seconded, and the motion was unanimously accepted. Should a membership vote be necessary to raise the dues, this will be carried out together with the ballot for SIP officers next spring.

Jimmy Becnel reported that US\$1000 will be provided by the SIP Council to support invited speakers at the symposium at the 2002 meeting who

are non-members. It was suggested that the symposium should be related to South American topics. Ted Andreadis proposed that the symposium could focus on comparison of natural epizootics in different ecosystems.

An idea was presented to demonstrate techniques for diagnosis of microsporidia and preparation of specimens at the 2002 Microsporidia Workshop for those investigators new to this field. Jimmy Becnel will check with the local organizers whether a wet lab would be available for the workshop.

Jimmy Becnel reported on Dr. Sprague's updated list of microsporidian genera. Dr. Sprague's data will be provided to Peg Rotstein, who will create a searchable list that will be put on the Division's website. Jimmy Becnel suggested that a committee of Division members should work on an update of this list every year.

Lee Solter reported that she is still attempting to get blanket permits from USDA/APHIS to import microsporidia to the US for the living specimens collection at the Illinois Natural History Survey. Up to now, individual permits are required for each new species. The members agreed that the Division and the Society should write letters of support if necessary.

The business meeting was adjourned at 8:40 pm.

Gernot Hoch, Secretary

Nematodes Division Meeting Report

Minutes of the Business Meeting, Division of Nematodes, Society for Invertebrate Pathology, Noordwijkerhout, The Netherlands, August 27, 2001, 20:00 – 21:15

The meeting was called to order by Itamar Glazer at 20:00. 30 persons were present. The minutes of the previous business meeting in Guanajuato, August 15, 2000, were approved unanimously.

Election for new Chairman of the Division. Because the present chair-elect, Noel Boemare, will not be available as Division chair after his 2-year term as Chair-Elect, it will be necessary to nominate and elect a new chair. Harry Kaya suggested that the present officers should remain in office for a third year, and this was met with general approval. The

suggestion was accepted but will need to be verified in the Bylaws of the Society. The justification was that this is a new division and we would maintain the chairmanship for another year to gain momentum. For 2002, we will solicit candidates to serve in the various positions and vote in Iguassu.

The division is allowed at least two symposia at SIP meetings. Itamar Glazer suggested that members think about possible topics and forward ideas to him or any other officer of the Division. Noel Boemare mentioned that a joint bacteria symposium with the Division of Bacteria should be possible but that he still had to contact the chair of the Bacteria Division to work out details.

Every year the Division will award at least one \$150 travel award to a student attending the SIP meeting. To be eligible, students must give a presentation at the meeting. The student award committee consists of Christine Griffin, Susan Bornstein-Forst, and Itamar Glazer (Chair).

The need to have a Division web page within the general SIP web page was restated, and the web page committee (Parwinder Grewal and Susan Bornstein-Forst) will work with Peg Rotstein to get this web page going. Among other things, the web page will list the Division officers, meeting minutes, student award information, and photos related to entomopathogenic nematode research.

Virus Division Meeting Report

Minutes of the Virus Division Business Meeting, SIP2001, Noordwijkerhout, The Netherlands, Sunday, August 26th.

The Virus Division Business Meeting was attended by 48 people, including 43 members of the Division. Chair Ian Smith opened the meeting with the presentation of a commemorative plaque to Dr. Paul Friesen (University of Wisconsin, USA) to mark his Special Lois K. Miller Lecture, 'New mechanisms for regulating apoptosis by the baculoviruses', presented during the opening Plenary Session of the SIP Meeting.

Chair's Report (Ian Smith) Ian reported that the Division's current state of health is very good, with membership up by 19 from last year. At this meeting there will be 99 virus-related presentations (compared with 79 in Guanajuato last year), and

three Symposia sponsored by the Division. SIP Council has again made US\$1,000 available to each Division, to support invited Symposium speakers who are not SIP members, and we have been able to assist one such speaker this year. Due to programming constraints, a decision was made at the SIP Council meeting to limit the number of Symposia to two per Division beginning with the 2002 meeting in Brazil.

The Virus Division list server (see below) has been used to good effect to solicit applications for our first \$200 Student Travel Grant. Six applications were received, and the Executive Committee will evaluate the applications in time to announce the winner at the Banquet.

Secretary/Treasurer's Report (Martin Erlandson)
Martin informed the members about the establishment of a list server to send items to the membership of the Virus Division. Messages should be forwarded to the Secretary/Treasurer by e-mail (erlandsonm@em.agr.ca) or Fax (306-956-7247) and they will be posted on the list server. The Secretary/Treasurer's position is now to include the maintenance of the Division's Website. Arrangements have been made with the Society's Executive Secretary to update the Division Web Page, to conform with the format of the other Divisions' Pages. This will be done as soon as possible after the current meeting.

Membership of the Division stands at 138 as of July 23, 2001. The balance of the Virus Division's funds at the beginning of the fiscal year (May 1, 2000) was US\$992, and the balance as of April 30, 2001 was \$2,320. We will have significant expenses as of this meeting, including the Division's contribution to the Martignoni Student Award (\$200), the Student Travel Grant (\$200), and costs associated with invited Symposium speakers for the 2001 meeting.

The Chair's and Secretary/Treasurer's reports were approved.

Student Travel Grant: The protocol for selection of Student Travel Grant winners was outlined briefly by Ian Smith. He indicated that once the protocol was reviewed by the Executive Committee it would be made available to the Division's members. There was discussion and a request that details and deadlines for application for the Student Travel Grant be made available with more lead time prior to

the meeting, via the SIP Newsletter and the Virus Division Web site. There was a general discussion as to the purpose of the Grant. A motion, that the Student Travel Grant be awarded prior to the SIP Annual Meeting in order to be of maximum benefit to the recipient, was carried.

Symposia/Workshops: The revolving list of proposed topics for future Symposia and Workshops sponsored by the Virus Division was put forward by the Chair. This list (including any suggested convenors) comprised:

Emerging Diseases of Invertebrates;
Tritrophic Interactions (Hoover, Felton);
Comparative Viral Pathogenesis (Bergoin);
Neglected Viruses (Ascoviruses/PDV/GSV)
(Burand, Federici);
Arthropod-Borne Viruses (Beaty, Becnel);
Viruses of Aquatic Invertebrates (Vlak).

Three new topics were added:
Prospects for the Use of Viral Pesticides (Moscardi, de Souza);
Development of Genetically-Modified Baculoviruses (Vlak);
Invertebrate Virus Genomics

'*Prospects for the Use of Viral Pesticides* and '*Arthropod-Borne Viruses*' were selected for next year's SIP meeting by a show of hands from the membership, and a recommendation was made to the Organizing Committee of the 2002 SIP Meeting that a 'State of the Art' lecture on Virus Genomics be considered as part of the program.

Election of Officers. Three nominations (James Maruniak, USA; Kelli Hoover, USA; David O'Reilly, UK) had been received by the Chair for the one Member-at-Large vacancy (replacing Yoshifumi Hashimoto, Japan). David O'Reilly was elected.

Other business: Nikolai Van Beek reported that the Du Pont baculovirus technology program has been discontinued but the technology has been transferred to the University of Maryland. The organization is open to discussions with any interested parties regarding access to the technology.

Peter Krell noted an item of old business from the 2000 Virus Division meeting. The Virus Division Executive was charged with developing a specific

proposal for the 2002 meeting on a Virus Division Award to honor a leading researcher for significant contribution to invertebrate virology.

A motion, that the Virus Division dues for regular members be increased to \$10.00, student dues remaining at \$3.00, and the increased revenues be put toward the Student Travel Award, was carried.

The meeting was adjourned by the Chair.

Martin Erlandson, Secretary/Treasurer



Virus Division Annual Photo

ANNUAL REPORTS

President's Report 2001

The past year has been an active time for the Society on several fronts. Leading the list was the decision to change our venue for the 2001 meeting from Israel to The Netherlands due to concerns over the growing tension in Israel that began shortly after the Guanajuato meetings. This was a very difficult decision for Council, but was done in light of the possibility that a prolongation of the conflict would prevent many members from attending due to institutional restrictions on travel and/or personal concerns. This had to be done very early if we were to have time to put another venue in place.

Reluctantly, and after careful consideration, we all agreed that it was in the Society's best interest to do so. Following a call for potential hosts, two members volunteered their institutions and agreed to head local arrangement committees if selected by Council. These were Doreen Winstanley at the

University of Warwick and Just Vlak at a conference center in Noorwijkerhout, The Netherlands. Both were excellent possibilities. After discussion and debate, Council elected to accept Just's invitation.

I greatly appreciate the offers of both Doreen and Just considering the work both were willing to accept on behalf of the Society. We agreed that the Israeli Committee would continue to serve as Program Committee for the meeting with Meir Broza as chair, and thus we are having an unprecedented two-country meeting as a result. Both committees have done an excellent job under unusual and difficult circumstances, and I cannot thank them enough.

The Mauro Martignoni Student Travel Award fund, first announced in Guanajuato, has been established and the first student was selected for support to the Noorwijkerhout meeting by the Endowment and Student Awards committee. Mauro's will provided for a \$5000 gift to the Society for this purpose, and we asked his family to allow us to use this as an endowment. Approximately \$3000 additional money has been added to the principal through member and Division donations so that interest will cover most of the \$500 to be awarded annually to a student for travel to give an oral presentation at the meetings. With a small additional increase in the principal, this endowment will be sufficient to generate the \$500 per year award indefinitely.

I appointed Wendy Gelernter as chair along with Sue McIntosh and Juerg Huber as the *ad hoc* SIP Fund Raising Committee. Their charge was to develop a system for requesting donations for meeting support from industry and other sources that would prevent confusion, double requests, and other problems faced recently because of lack of consistency from year to year in the way that this activity has been handled. They were also charged with soliciting support for this year's meeting. They have done an excellent job as they will report at the Council meeting. I very much appreciate their hard work.

Council agreed to support programming costs for this year's meeting by providing \$1,000 for general program symposium speakers' support and \$1,000 to each of the six divisions for programming support for their symposia. A stipulation was added that the funds be used only to support speakers who are non-members and would not normally be attending our meeting. Also, the money would not be carried over

to future years if not used this year. It is hoped that this support will add to the dimensions of our scientific programming and possibly lead to new memberships. We were able to do this partly because of the profit from last year's meeting and will discuss continuance of this support at this year's Council meeting. I feel this is an excellent way to add value to the meetings.

The two new Divisions on Fungi and Nematodes are fully operational now and are actively contributing to the operation of the Society and our meetings. All six divisions have organized symposia this year and will have regular business meetings.

A few changes in standing committees have been made. With Wendy taking responsibility as chair of the SIP Fund Raising Committee, I asked Bob Granados to replace her as chair of the Nominating Committee, but Wendy continues as a member. Andreas Linde has filled the vacancy on the Endowment and Student Awards Committee created by the unfortunate death of Tad Poprawski shortly after last year's meeting in Mexico. John Vandenburg replaced Harry Kaya on the Founders' Lecture Committee since Harry was elected Vice President. Other changes set up by Juerg Huber last year have been made during the year. Mark Goettel has replaced Just Vlcek as chair of the Meetings Committee. Lee Solter has assumed editorship of the SIP Newsletter with Mark's help as Assistant Editor.

All committees have been active and will be reporting individually at the Council meeting. Major issues of concern continue to be membership, dues, and finances. In general, the Society is in excellent shape financially, and this will continue as long as our meetings continue to break even or show a profit. I will propose that we develop a structure for returning a portion of these profits to enhance future meetings for the benefit of the membership.

Society business continues to be handled smoothly and efficiently by Executive Secretary Peg Rotstein. We are very fortunate as a Society to have her services.

Jim Harper, President

Treasurer's Report

The financial statements for the Society for the fiscal year ended April 30, 2001 are enclosed in exhibits A (assets sheet), B (revenue and expenses), C (board designated funds), and D (accompanying notes). At the end of the fiscal year the majority of our assets were held in a money market account earning roughly 4% interest while decisions were made related to investment strategy. The remainder of the assets was held in CDs earning 6.35% (Note 2, Exhibit D). Total interest earned for the fiscal year was \$11,906.

Society expenses totaled \$39,180 (Exhibit B), up from last fiscal year by about \$4,400. However, due in part to a strong annual meeting and a major increase in contributions, net revenue showed a gain of \$21,394, representing a change of over \$26,000 compared with last year's net revenue. Net profit from the Guanajuato meeting was \$23,091 and the new Martignoni fund attracted over \$8,000 in donations. Income from membership dues was \$17,610, down from last year's total of \$17,871. Costs for duplicating and mailing the newsletter continue to be our major expense at \$9,786. However, last year's newsletter expenses were over \$13,000. Another new expense was payment to speakers for the Annual meeting. General donations to the Divisions for program support totaled \$6,000.

The activity of the Board Designated Funds (Divisions, Endowment, and Martignoni Funds) is shown in Exhibit C. Fund balances are listed below. These figures represent the status of the accounts as of April 30, 2001.

Overall, the financial picture of the Society remains good. However, the health of the Society continues to depend, in large part, on a profitable annual meeting. Dues provided only approximately 36% of the annual operating expenses of the Society. By the end of the fiscal year, SIP had a net worth of \$182,846. Of this amount \$44,000 were in CDs and approximately \$147,000 were in an interest bearing Cash Management Account with Merrill Lynch. The large cash balance is due to the maturation of two CDs (totaling \$70,000) in December. Funds remained in the cash account the remainder of FY 01 while decisions were made on investment strategy. There is currently an outstanding balance from Academic Press for payment of subscriptions for the Journal of Invertebrate Pathology in the amount of approximately \$14,000.

In summary, although SIP is in a very good financial situation right now, the membership should probably consider some longer-term solutions to the dues vs. expenses issue. In my opinion, a dues increase would not be in the Society's best interest but perhaps meeting organizers could budget in a modest profit for each meeting. Similarly, fund

raising events such as the slide atlas sale and increased solicitation of donations could enhance our long-term picture.

Respectfully submitted,
Michael R. McGuire, Treasurer

Fund Balances: 4/30/2001

General and Administrative	\$ 127,627.20
Virology	\$ 2,320.00
Bacteria	\$ 1,030.00
Microsporidia	\$ 2,847.00
Microbial Control	\$ 6,116.00
Fungi	\$ 374.00
Nematode	\$ 1,242.00
Endowment	\$ 8,432.19
Martignoni	\$ 8,048.00
TOTAL	\$ 158,036.39

Exhibit A

SOCIETY FOR INVERTEBRATE PATHOLOGY
COMPARATIVE STATEMENT OF FINANCIAL POSITION
FOR PERIODS MAY 1, THROUGH APRIL 30, 2001 AND 2000

ASSETS	2000	2001
Cash Merrill Lynch - EMA	\$ 24,842.00	\$ 147,632.76
Accrued Interest Receivable	\$ 2,867.00	\$ 6,784.00
Funds Receivable	\$ 5,040.00	-
Funds Payable	\$ -	(\$15,571.03)
Certificates of Deposit	\$ 112,000.00	\$ 44,000.00
TOTAL ASSETS	\$ 144,749.00	\$ 182,845.73

Exhibit B

SOCIETY FOR INVERTEBRATE PATHOLOGY
COMPARATIVE STATEMENT OF ACTIVITY
FOR PERIODS ENDED APRIL 30, 2001 AND 2000

<u>REVENUE</u>	General Fund	Board Designated Funds (Schedule 1)	Total 2001	2000
Slide Atlas Sales	\$ 240.00	\$ -	\$ 240.00	\$ 780.00
Proceedings Sales	\$ 12.00	\$ -	\$ 12.00	\$ 24.00
Membership Dues	\$ 16,200.00	\$ 1,410.00	\$17,610.00	\$17,871.00
Annual Meeting Income	\$ 18,991.32	\$ 4,100.00	\$23,091.32	\$ 1,946.00
Meeting Speaker Contributions to Divisions		\$ 6,000.00	\$ 6,000.00	\$ -
Contributions	\$ 258.00	\$ 8,367.00	\$ 8,625.00	\$ 907.00
Video Production *	\$ 1,000.00	\$ -	\$ 1,000.00	\$ -
Interest	\$ 11,186.10	\$ 720.19	\$11,906.29	\$ 7,116.00
TOTAL REVENUE	\$ 47,887.42	\$ 20,597.19	\$68,484.61	\$28,644.00
<u>EXPENSE</u>	2001	Board Designated Funds (Schedule 1)	Total 2001	2000
Mailing of dues notices & other	\$ 369.69	\$ 660.00	\$ 1,029.69	\$ 884.00
Program & Abstracts	\$ 7,258.90	\$ -	\$ 7,258.90	\$ 3,365.00
Newsletter - Printing, Mailing (includ. mtg. abstr.), & Supplies	\$ 9,786.02	\$ -	\$ 9,786.02	\$13,557.00
Travel	\$ 1,324.27	\$ -	\$ 1,324.27	\$ 2,184.00
Supplies and Duplicating	\$ 199.37	\$ -	\$ 199.37	\$ 378.00
Accounting Services	\$ 750.00	\$ -	\$ 750.00	\$ 906.00
Internet Services	\$ 480.00	\$ -	\$ 480.00	\$ 455.00
Secretariat (Peg's Salary)	\$ 7,920.00	\$ -	\$ 7,920.00	\$ 7,200.00
Telephone	\$ 1,034.25	\$ -	\$ 1,034.25	\$ 403.00
PO Box & Mail forwarding	\$ 208.00	\$ -	\$ 208.00	\$ 72.00
Awards	\$ 795.00	\$ 1,000.00	\$ 1,795.00	\$ 1,275.00
Credit Card Charges	\$ 844.72	\$ -	\$ 844.72	\$ 2,887.00
Bank Account Fees	\$ 210.00	\$ -	\$ 210.00	\$ 156.00
Speakers at Mexico Meeting	\$ 6,000.00	\$ 5,250.00	\$11,250.00	\$ -
CD reinvestment (See note 3)	\$ 2,000.00	\$ -	\$ 2,000.00	\$ -
Video Production *	\$ -	\$ 1,000.00	\$ 1,000.00	\$ -
Miscellaneous	\$ -	\$ -	\$ -	\$ 500.00
TOTAL EXPENSE	\$ 39,180.22	\$ 7,910.00	\$47,090.22	\$33,772.00
Net Revenue Before Fund Transfers	\$ 8,707.20	\$ 12,687.19	\$21,394.39	\$ (5,128.00)
Endowment Fund Transfer	\$ 210.00	\$ (210.00)	\$ -	\$ -
NET REVENUE	8,917.20	12,477.19	21,394.39	\$ (5,128.00)

* amended as recommended in Auditor's Report FY2000

Exhibit C

SOCIETY FOR INVERTEBRATE PATHOLOGY
BOARD DESIGNATED FUND REVENUE AND EXPENSE
FOR THE PERIOD MAY 1, 2000 THROUGH APRIL 30, 2001
2001 Board Designated Funds

	Virology	Bacteria	Micro- sporidia	Microbial Control	Fungi	Nematode	Endow- ment	Martignoni Fund	Total
REVENUE									
Membership Dues	\$ 328.00	\$ 206.00	\$ 116.00	\$ 444.00	\$ 224.00	\$ 92.00	\$ -	\$ -	\$ 1,410.00
Contributions	\$ -	\$ 1,000.00	\$ -	\$ 2,200.00	\$ -	\$ 900.00	\$ 319.00	\$ 8,048.00	\$ 12,467.00
Speaker Contrib. from SIP general fund	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00			\$ 6,000.00
Interest Income from CDs	\$ -	\$ -	\$ -	\$ 327.00		\$ -	\$ 393.19	\$ -	\$ 720.19
Total Revenue	\$ 1,328.00	\$ 2,206.00	\$ 1,116.00	\$ 3,971.00	\$ 1,224.00	\$ 1,992.00	\$ 712.19	\$ 8,048.00	\$ 20,597.19
EXPENSE									
Endowed Members	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 210.00	\$ -	\$ 210.00
Mailing of MCD directory	\$ -	\$ -	\$ -	\$ 660.00	\$ -	\$ -	\$ -	\$ -	\$ 660.00
Travel Awards	\$ -	\$ -	\$ -	\$ 1,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,000.00
Video Production* Martignoni Fund Donation	\$ -	\$ -	\$ -	\$ 1,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,000.00
Meeting Speakers	\$ -	\$ 2,000.00	\$ -	\$ 1,500.00	\$ 1,000.00	\$ 750.00	\$ -	\$ -	\$ 5,250.00
Total Expense	\$ -	\$ 2,000.00	\$ -	\$ 4,360.00	\$ 1,000.00	\$ 750.00	\$ 210.00	\$ -	\$ 8,320.00
Net Revenue	\$ 1,328.00	\$ 206.00	\$ 1,116.00	\$ (389.00)	\$ 224.00	\$ 1,242.00	\$ 502.19	\$ 8,048.00	\$ 12,277.19

Exhibit D

SOCIETY FOR INVERTEBRATE PATHOLOGY
NOTES TO THE FINANCIAL STATEMENTS
FOR THE PERIOD MAY 1, 2000 THROUGH APRIL 30, 2001

Note 1: Membership Dues (2000, 2001)

	<u>2000</u>	<u>2001</u>
Full Member (509@\\$30; 502@\\$30)	\$ 15,270.00	\$ 15,060.00
Student Member (89@\\$15; 76@\\$15)	\$ 1,335.00	\$ 1,140.00
Microsporidia (63@\\$2; 58@\\$2)	\$ 126.00	\$ 116.00
Virology (118@\\$2; [35@\\$2, 86@\\$3])	\$ 236.00	\$ 328.00
Bacteria (109@\\$2; 103@\\$2)	\$ 218.00	\$ 206.00
Microbial Control (268@\\$2; 222@\\$2)	\$ 536.00	\$ 444.00
Fungi (75@\\$2; 112@\\$2)	\$ 150.00	\$ 224.00
Nematode (0; 46@\\$2)	\$ -	\$ 92.00
TOTAL	\$ 17,871.00	\$ 17,610.00

Exhibit D (continued)**Note 2: Interest and Investments**

Investments owned by SIP on April 30, 2001

	CD WESTERNBK OF PR	CD FCNB BK	CD CAPITAL ONE BANK FSB	TOTAL
Society Operations:				
Cost	\$ 25,000.00	\$ 12,881.00	\$ 63,311.00	\$ 101,192.00
Maturity Date	11/15/01	11/15/01	12/27/00	
Interest Rate	6.35%	6.32%	6.25%	
Endowment Fund:				
Cost			\$ 6,689.00	\$ 6,689.00
Maturity Date			12/27/00	
Interest Rate			6.25%	
Microbial Control				
Cost		\$ 6,119.00		\$ 6,119.00
Maturity Date		11/15/01		
Interest Rate		6.32%		
TOTAL VALUE	\$ 25,000.00	\$ 19,000.00	\$ 70,000.00	\$ 114,000.00

Note 3: CD transfer

2000 CD Name	2000	Interest	2001	
CD CAPITAL ONE BANK FSB	\$ 70,000.00	\$ 4,363.01	\$ 70,000.00	CD Purchase Pending
CD IBJ WHITEHALL BK & T	\$ 24,000.00	\$ 1,287.75	\$ 25,000.00	CD WESTERNBK OF PR
CD OLD NATL BL	\$ 18,000.00	\$ 1,014.21	\$ 19,000.00	CD FCNB BK
TOTAL INVESTMENT	\$ 112,000.00	\$ 6,664.97	\$ 114,000.00	

Audit of the Treasurer's Report for Fiscal Year 2000-2001

Ted Andreadis, Wayne Brooks and I reviewed the Treasurer's report prepared by M. McGuire. It appears to accurately reflect the financial condition of the Society. The report indicates that the Society is in good financial health with an adequate surplus.

T. Couch

Executive Secretary Report

In the past year, I have continued my regular duties as executive secretary including printing and mailing newsletters, corresponding with members, maintaining the membership database and maintaining SIP's bank accounts with the supervision of our treasurer, Mickey McGuire.

Early this year, the newsletter editorial duties shifted from Mark Goettel to Leellen Solter. Although, I miss working with Mark and his amazing knowledge of the Society, Lee has proven to be an excellent editor and a joy to work with. The transition has occurred seamlessly and we are proving that Mac people and PC people can work together!

This year, more members (approx. 60% overall) have elected to access the newsletter online, which saves the Society a considerable amount of money in printing and postage. The Society will continue to offer the option of receiving the newsletter online or by mail. Members who chose to receive the newsletter online will receive automatic e-mails announcing availability and Internet address of the newsletter.

As the Society shifts toward providing more online services, I have worked to improve both the web site and the method in which members pay their annual dues. Early this year our website moved from our old Internet service provider in Gainesville, Florida to the Center for Integrate Pest Management at NCState University in Raleigh, North Carolina. Thanks to the generosity of Dr. Ronald Stinner and the approval of our department head, Dr. James Harper, we now have our website on a premium server at no cost to the Society.

Late last year, I implemented a secure online payment service. SIP now can accept credit card payments for membership, slide atlas sales and any other service or products the Society provides. So far, this free service has proven to be an excellent solution to online membership payment, with 33% of members taking advantage of the new payment option. An unexpected benefit of accepting online memberships has been the reduction in transcription errors often encountered when interpreting handwritten forms. I encourage all members to use this new service from our website (www.sipweb.org). You will save money on postage, the time of mailing or faxing your membership, and reduce the chances of errors in transcribing membership information.

I continue to encourage members to communicate with me via e-mail at sip@sipweb.org. I am open to all suggestions and complaints and look forward to serving SIP for another year.

Respectfully submitted,
Margaret "Peg" Rotstein, Executive Secretary

2001 SIP Newsletter Report

Three issues of the Newsletter comprising a total of 116 pages were produced in the 2000-2001 year. In addition to 104 pages of Newsletter text, there were 3 supplements comprising 12 pages. The first supplement (November 2000) consisted of 2 pages containing a survey and Constitution amendment voting form and a membership renewal form. The Supplement for the February 2001 issue consisted of 6 pages of registration forms for the Noordwijkerhout meetings and the membership renewal form. The third supplement (June 2001 issue) of 4 pages included meeting announcements for the 2001 Annual Meeting. This information and all regular issues were also posted on the SIP Website.

The Newsletter text was prepared in Urbana, Illinois and printed in Raleigh, North Carolina. Newsletters were mailed to U.S. members requesting hard copies using the U.S. Postal Service and to other countries using Global Mail (a division of Deutsche Post).

The Newsletter was available on the Society's website as downloadable Adobe files. Approximately 61% (64% nonU.S. and 58% U.S.) of the Society's members have chosen to download the web version of the Newsletter, saving the Society considerable mailing costs.

Leellen Solter assumed duties as the Newsletter Editor, effective 1 January, 2001. Mark Goettel assumed duties as Newsletter Assistant Editor. Margaret Johnson made final adjustments to the format, printed, collated, mailed hard copies, and posted the Newsletter on the SIP web site.

We are grateful to all members who contributed material to the Newsletter this year, and encourage members to send news of interest to the Society.

Respectfully submitted,
Leellen Solter, Newsletter Editor
Mark Goettel, Assistant Newsletter Editor

Financial Report, August 2000 - July 2001

Total cost of Newsletter (3 issues): \$6,602.96
Cost per member based on 676 members: \$9.77

	Dec, 2000	Feb, 2001	June 2001
	Vol 33(3)	Vol 34(1)	Vol 34(2)
	53 pp.	30 pp	32 pp.

Expenses at Lethbridge & Urbana (USD\$)			
Clerical	195.00	0	0
Miscellaneous	97.00	0	0
Subtotal	292.00	0	0

Expenses at Raleigh			
Printing	1,613.73	1,114.67	955.40
US Mailing ¹	337.50	200.00	151.41
Int'l Mailing ¹	930.00	488.25	520.00
Subtotal	2,881.23	1,802.92	1,626.81
Total	3,173.23	1,802.92	1,626.81

¹ Includes mailing of membership renewals

COMMITTEE REPORTS

Meetings Committee Report

The Meetings Committee includes Mark Goettel, Chair, Mike Adang and Brian Federici as members. The past year was very busy with the tough decision to move the meetings from Jerusalem to an alternate venue. Just Vlak and Doreen Winstanley and their committees were thanked for putting together two excellent proposals at very short notice. Taking all things into consideration, the Meetings Committee recommended to Council the Dutch venue.

Planning for the meetings of 2002 in Iguassu Falls, Brazil are well under way under the chairmanship of Flavio Moscardi. The meetings for 2003 will be held at Burlington, Vermont, USA in early August with John Burand chairing the organizing committee.

The committee has received several proposals for meetings beyond 2002. For 2004, possibilities include Queenstown, New Zealand, Cairns, Australia and Thailand (Phuket or another venue). The committee is considering scheduling the meeting so that it would make it possible for delegates to also attend the International Congress of Entomology which will be held in Brisbane. For 2005, the committee is soliciting proposals from North America. Possibilities include the Midwest USA or a Caribbean Cruise! In 2006, we will be holding an International Colloquium with Thailand, Ethiopia, China and South Africa as possible venues. The Committee awaits for written proposals at this time.

After many years with a Sunday evening to Friday noon meeting format, the format was changed for the present meeting. There are advantages and disadvantages. The format will be reverted back to the previous one for Brazil, but the option remains open to change the format for meetings beyond that. The Meetings Committee solicits suggestions from the Society Membership as to the preferred format or any other changes they would like to see.

Mark Goettel, Chair

Membership Committee

Composition of SIP Membership: There was a small decline in membership during the past year (see table and chart for breakdown by country and region). Overall, there was a 1% decrease in membership and

a net loss of 14 members. Currently, there are 689 members worldwide representing approximately 50 countries (as of July 30, 2001). Approximately 50% of the members are from North America (US, Canada and Mexico). The largest increase in membership was from Eastern Europe (up 33%) and the largest decline was from North America (down 9%).

There are currently six Divisions within the SIP and these remain very popular with the membership (see attached table) with many members belonging to several divisions. The largest division is Microbial Control followed by Virology, Fungi, Bacteria, Nematodes and Microsporidia.

Activities during 2000/2001:

One membership renewal form was sent out this year along with a mass e-mailing on May 27, 2001. The mass email resulted in approximately 84 additional renewals. Most members who have cancelled their memberships reported that they either no longer work in the area of invertebrate pathology, or have retired.

The new Nematode division has 70 new members.

Suggested activities for 2001/2002:

Online membership renewal: Very successful: 231 members renewed via the Internet, approximately 1/3 of members.

Submit articles or information about the Society (purpose, benefits and activities) to suitable outlets and promote SIP web site by advertising on related sites and mailing lists.

Expand and refine the membership portion of the SIP web site.

Promote the 2002 SIP meeting in Brazil by establishing contacts in Central and South American countries to assist in providing potential participants with meeting details. Consider a special program (Portuguese and Spanish Poster session?) to increase meeting attendance and new members from Central and South America.

The Membership Committee: The Membership Committee for 2000/2001 consists of Jorge Ibarra, Robert Anderson, Lerry Lacey and James Becnel.

DIVISION MEMBERSHIP 2001

Division	Number of Members
Microsporidia	59
Microbial Control	250
Bacteria	111
Virus	138
Fungus	121
Nematode	70

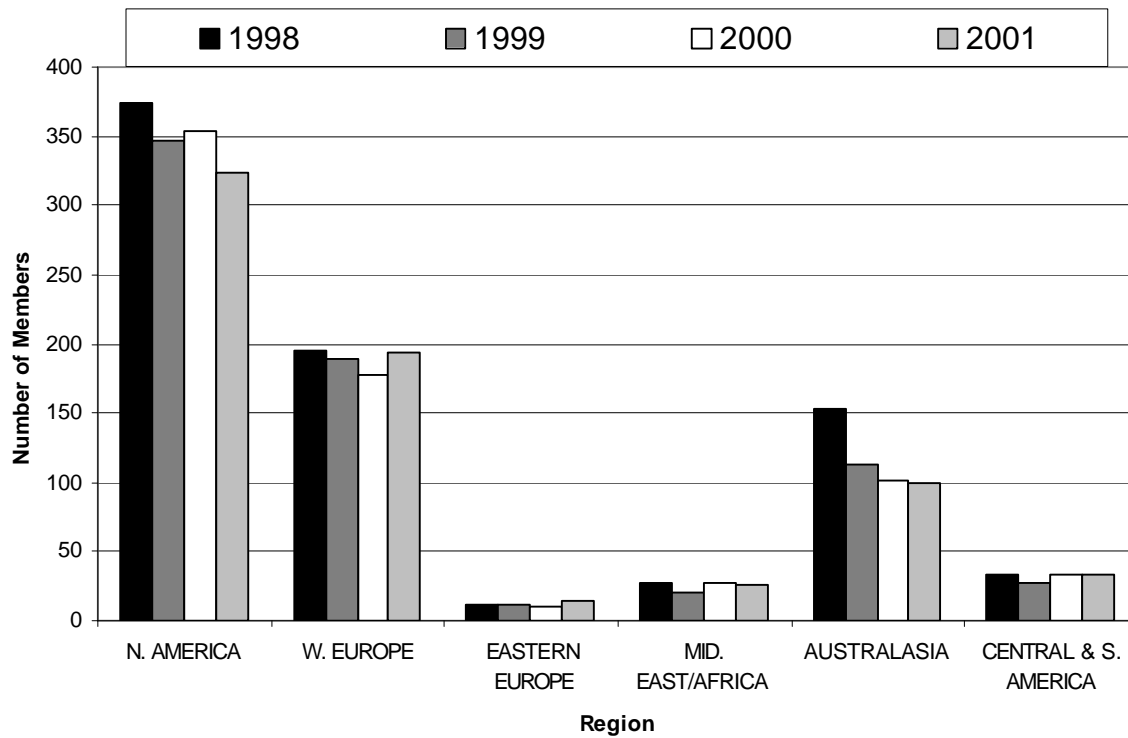
SIP MEMBERSHIP

<i>LOCATION</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>	<i>1999</i>	<i>2000</i>	<i>2001</i>	<i>%change</i>
CANADA	57	63	54	46	50	52	
MEXICO	17	16	12	9	31	15	
UNITED STATES	357	343	308	292	273	256	
N. AMERICA	431	422	374	347	354	323	-8.8%
AUSTRIA	3	4	3	5	6	6	
BELGIUM	9	8	5	4	3	3	
DENMARK	7	7	6	6	3	5	
FINLAND	3	3	2	2	2	3	
FRANCE	42	37	25	23	26	23	
GERMANY	19	17	18	16	17	24	
GREECE	1	1	1	2	1	1	
IRELAND	-	-	-	-	-	2	
ITALY	12	12	10	4	4	4	
NETHERLANDS	10	15	13	13	13	21	
NORWAY	2	2	2	2	2	3	
PORTUGAL	7	7	6	5	4	3	
SPAIN	19	13	8	9	9	10	
SWEDEN	9	8	7	6	5	4	
SWITZERLAND	4	7	8	8	7	4	
UNITED KINGDOM	83	83	81	84	76	77	
W. EUROPE	233	224	195	189	178	193	8%
BULGARIA	-	-	1	1	1	0	
CZECH REPUBLIC	3	4	3	3	2	1	
MOLDOVA	-	1	1	1	1	2	
POLAND	3	4	3	2	3	7	
ROMANIA & LATVIA	3	3	4	3	2	3	
RUSSIA	1	1	-	2	2	2	
EASTERN EUROPE	17	13	11	11	10	15	33.3%
EGYPT	7	5	3	3	3	2	
IRAN	-	-	-	-	2	2	
ISRAEL	11	12	13	9	9	11	
JORDAN	2	2	2	-	-	-	
KENYA	2	3	3	2	3	4	
MADAGASCAR	-	-	-	-	1	-	
SOUTH AFRICA	4	3	3	3	4	3	
WEST AFRICA	3	3	2	3	4	3	
TURKEY	3	2	1	-	1	1	
MID. EAST/AFRICA	34	30	27	20	27	26	-4.7%

SIP MEMBERSHIP (Continued)

<i>LOCATION</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>	<i>1999</i>	<i>2000</i>	<i>2001</i>	<i>%change</i>
AUSTRALIA	29	25	28	23	23	22	
PR OF CHINA	11	11	10	8	6	4	
INDIA	3	3	3	3	4	3	
INDONESIA	-	-	-	-	-	2	
JAPAN	49	51	86	50	49	47	
NEW ZEALAND	10	9	5	7	7	10	
PHILLIPINES	3	3	3	4	2	3	
KOREA	3	3	3	4	3	2	
TAIWAN	14	8	10	8	4	3	
THAILAND	2	4	5	6	3	3	
AUSTRALASIA	127	117	153	113	101	99	-2%
ARGENTINA	7	6	7	6	5	11	
BRAZIL	18	23	22	16	16	15	
COLOMBIA	1	3	1	4	6	2	
COSTA RICA	2	2	1	-	3	-	
DOMINICAN REP.	1	1	1	1	1	1	
NICARAGUA	-	-	-	-	-	1	
PERU	1	1	1	1	1	-	
VENEZUELA	-	-	-	-	1	3	
CENTRAL & S. AMERICA	48	36	33	28	33	33	0%
TOTAL	890	842	793	708	703	689	-1%

SIP Membership 1998-2001



Ad-hoc Fund Raising Committee

An ad-hoc fund-raising committee, consisting of Susan MacIntosh, Jürg Huber and Wendy Gelernter (chair) was appointed by President Harper in August, 2000 to develop strategies for maximizing financial sponsorship of the SIP annual meeting. Specific issues that the committee was asked to address included:

- Improving coordination among SIP fund-raising efforts by local arrangements committees, division chairs and other volunteers
- Standardizing the timing and procedure for soliciting corporate funding so that funding is received prior to the annual meeting, thus giving meeting organizers the benefit of knowing how much financial sponsorship they have
- Increasing the number of companies solicited and the size of the sponsorships received
- Making funding more attractive to sponsors by developing a variety of ways for companies to donate funds

The committee has made the following progress:

- Approximately \$13,000 has been pledged so far by various corporate donors. These funds will be deposited in the SIP bank account, and will be counted as meeting income.
- A list of potential donors and their contact information, standardized form letters, and a suggested time-line and procedure has been generated. This information will be supplied to future meeting organizers and/or fund-raisers, and will also be available through the SIP office.
- Recommendations for future fund-raising strategies have been made (see attached). These should be discussed and voted upon at the August, 2001 Council meeting.

The Ad-hoc Fund-raising Committee is requesting Council's input and direction on the following questions:

- How can the fund-raising efforts implemented this year be improved upon?
- How should the Society deal with corporate sponsors who want to provide donations that are ear-marked for special uses (speaker fees, mixers, the banquet, etc)?
- Should the Society consider corporate sustaining

memberships as a means of obtaining more reliable funding?

I. Assign a permanent Fund-raising Committee

Assign a permanent Fund-raising Committee to be appointed by the President to carry out these responsibilities:

- solicit corporate (or other) sponsorship for the SIP meetings in a timely fashion
- coordinate activities with meeting local arrangements committees to avoid duplication of effort. Local arrangements groups would still be expected to solicit regional grants from government and other sources, but would not be expected to deal with corporate donors
- Prepare and keep updated a list of corporate contacts, and possibly a suggested written procedure, for the use of future fund-raising efforts
- Ensure that all sponsors are adequately recognized and thanked for their contributions.
- Encourage SIP members to use their personal contacts with potential corporate or other sponsors to support SIP fund-raising activities.

II. Institute a more coordinated fund-raising effort

An interim procedure (see below) will be implemented for 2001 fund-raising efforts. This procedure should be reviewed by SIP Council at the 2001 meeting, so that their direction can be incorporated into future efforts.

- The fund-raising committee will prepare a list of potential corporate contacts who will be approached during Spring, 2001.
- All funds solicited will be mailed to the SIP. Council will make the final decision on how the monies are spent.
- Corporate donors will be encouraged to make their contributions to the SIP general fund. Funding that is ear-marked for specific purposes will be discouraged until we have better procedures in place.
- If there are special cases that arise, the situation should be reviewed with the SIP President before anything is finalized.

III. Review the interim fund-raising procedure, and make appropriate changes

- Conduct an annual review of the SIP's fund-raising strategies via an annual written report as well as an oral presentation and discussion at the annual SIP Council meeting. Make changes where appropriate. Reports will be prepared by the chair of the Fund-raising committee
- Provide input to the SIP Council on approaches for expanding and enhancing future fund-raising efforts. Potential committee activities (to be approved by Council prior to implementation) would include:
- A survey of organizational and procedural methods used by other professional societies to address fund-raising issues – particularly the issues of dealing with ear-marked funds and coordination of divisional vs. general society fund-raising efforts
- A corporate survey to gain input from companies on their preferred methods of funding (sustaining memberships, student scholarship, general fund contributions, funding of mixers, coffees, dinners, etc.)
- A survey of other, non-corporate sources of funding for SIP

Wendy Gerlernter, Chair

Endowment & Student Awards Committee

Endowed Memberships

The endowment fund of the Society for Invertebrate Pathology is used to pay the annual membership dues of scientists and students primarily from developing countries or in situations where hard currency is difficult to obtain. However, endowed memberships are also granted to scientists from developed nations in special cases where financial constraints preclude membership. Usually the interest on the endowment is sufficient to pay for the dues of up to 12 persons per year. Endowment support is not granted for a specified number of years; however, support in the past has generally been provided for 3 to 5 years, depending on the numbers of worthy nominees.

Twelve colleagues were selected for endowed memberships for 2001: two from Benin Republic, and one each from Egypt, Iran, Italy, Malagasy Republic, Mexico, Nigeria, Phiippines, Poland, Romania, and Russia.

The Committee encourages all SIP members to nominate colleagues for endowed memberships. Please e-mail your nominations to Nguya Maniana (nmaniana@icip.org), Andreas Linde (alinde@fh-eberswalde.de) or Stephen Wraight (spw4@cornell.edu).

Martignoni Student Travel Award

The first annual Mauro Martignoni Student Travel Award was presented to Italo Delalibera Jr. of Brazil. Italo received his B.S. in agronomy from the Escola Superior de Agricultura of Lavras, Minas Gerais and M.Sc. in entomology from the Escola Superior de Agricultura Luiz de Queiros of Piracicaba, São Paulo. He is currently conducting his dissertation research at Cornell University in Ithaca, New York in collaboration with Ann Hajek. Italo's graduate work in Brazil, Africa, and the US has focused on development of fungal pathogens and other agents for control of the cassava green mite, *Mononychellus tanajoa*. His studies have resulted in development of novel culture, storage, and handling techniques for the highly fastidious fungi of the genus *Neozygites*. Results of his work have been highlighted in more than 30 poster and paper presentations at international conferences and published in numerous US and Brazilian journals. Italo's paper presented at the Noordwijkerhout meeting titled "Long-term implementation of classical biological control using a mite pathogenic fungus in Africa: From exploration to detection of establishment" was an award winner in the student presentation contest. We applaud Italo for his many excellent contributions to basic and applied mycopathology and look forward to seeing him at many future SIP meetings.

Stephen Wraight, Chair

Founders' Lecture Committee

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

In November 2000, Professor Harry Kaya retired from the Committee following his election to the position of Vice President of the Society, and the Committee thanks and commends Professor Kaya for his many contributions to the work of the

Committee.

The Committee was convened during the Society's 2000 Guanajuato meeting, where an overview of past Founders' Honorees and Lecturers was presented by the Chair and the Committee then deliberated on candidates for future Lecturers and Honorees.

The Committee's unanimous recommendation was that, in recognition of their outstanding service to invertebrate pathology and to the Society, Dr. Wayne Brooks be invited to be the Society's 2001 Founders' Lecturer and Dr. Jaroslav Weiser to be the Honoree.

On his return to Adelaide, the Chairman sent letters of invitation to Dr. Brooks and Dr. Weiser. It is a pleasure to report that both invitations were accepted. Provision of information, photographs, etc. then was arranged from Dr. Weiser to Dr. Brooks and their brief biographies requested for the Society's Newsletter.

Dr. Brooks will deliver the 2001 Founders' Lecture in honour of Dr. Weiser during the Opening Plenary Session of the Noordwijkerhout meeting.

As is the usual practice, the Committee will convene during the Noordwijkerhout meeting to consider and recommend the Founders' Lecturer and Honoree for the 2002 meeting.

On behalf of the Founders' Lecture Committee,

Yours faithfully,
Professor Dudley Pinnock, Chair

Tellers Committee

The votes for the proposed changes in the constitution were counted by Mary Barbercheck and Wayne Brooks, North Carolina State University. Votes numbering 224 were received on the proposed change to the SIP Constitution; 217 votes were in favor of the proposed change, and 7 were against.

Respectfully submitted,
Mary Barbercheck, Chair

Publications Committee

The SIP Web site is functioning well. The Newsletter is published on the Web site.

Most interest has now turned to determining how the Society and the Publications Committee can facilitate the publication of inexpensive documents of value to our members and the broader scientific community. The June Newsletter contained several letters from people who are frustrated with the current system of book publication.

During the next 12 months, the Committee is likely to explore the options available to the Society. These may include (1) offering direct electronic and other publication of our members' documents, (2) joining with a library or other institution dedicated to long-term preservation of documents, (3) proposing that our Society and members work as a unified force to change current practices by publishers.

To study these options, we will likely ask librarians, publishers, leaders of other societies, and others thinking about and organizing alternatives to traditional publication to communicate with us via letters or at a symposium to be held at a future meeting (Brazil or USA). Publication ideas and practices are changing rapidly in science, so there is much to learn and the Committee must monitor a wide variety of sources.

Submitted by *David Onstad, Chair*

ANNOUNCEMENTS FOR SIP 2002 MEETING IN IGUASSU FALLS, BRAZIL

Call for 2002 Symposia

The following SIP Divisions are soliciting ideas and organizers for the symposia to be held at the VIIIth International Colloquium on Invertebrate Pathology and Microbial Control (XXXVth Annual Meeting of the Society for Invertebrate Pathology) and International Conference on *Bacillus thuringiensis* in Iguassu Falls in Brazil, August 18-23, 2002. Please send the name of symposium organizer(s), symposium title, a brief paragraph describing the overall content of the symposium, a list of potential topics, and speakers to contact persons for Divisions as listed below.

Microbial Control Division: The topics should pertain to Microbial Control for the symposium sponsored by the MCD Division (but the scope of candidate symposia is not limited to strictly applied subjects). Some limited financial assistance to offset registration and travel costs of invited speakers, may be available. For submission of candidate symposia contact Lerry Lacey (llacey@yarl.ars.usda.gov). MCD is also soliciting ideas for the 2002 Division Workshop. Please contact Jeff Lord (lord@gmprc.ksu.edu) with ideas/suggestions.

Microsporidia Division: The topics should pertain to Microsporidia or Protozoa. Some limited financial assistance to offset registration and travel costs of invited speakers, may be available. For submission of candidate symposia contact Jimmy Becnel (jbecnel@gainesville.usda.ufl.edu).

Bacteria Division: The following symposia will be organized for Iguazu Falls next summer:

1) Bacteria/Insect interactions: virulence aspects. Send proposals (suggested topics/speakers) to Didier Lereclus (lereclus@pasteur.fr).

2) Bacterial insecticidal proteins: specificity, improvement and novel toxins. Send proposals (suggested topics/speakers) to Jim Baum (james.a.baum@monsanto.com).

3) *Bti* and *B. sphaericus* mosquitocidal strains: use and necessities. Send proposals (suggested topics/speakers) to Christina Nielsen-LeRoux (cnielsen@pasteur.fr).

4) *Bt* transgenic plants and insect resistance to *Bt* toxins. Send proposals (suggested topics/speakers) to Juan Ferre (juan.ferre@uv.es) and Jeroen van Rie (jeroen.vanrie@aventis.com).

5) We also intend to hold a Workshop with a discussion about "Ethics and legal concerns on the use of transgenic plants". Send proposals (suggested topics/speakers) to Bill Moar (wmoar@acesag.auburn.edu).

6) A joint symposium or workshop is also planned to be organized with the Nematode Division. Send ideas and proposals to Noël Boemare (boemare@ensam.inra.fr) or Jean-Louis Schwartz (jean-louis.schwartz@umontreal.ca).

CANDIDATES FOR SIP OFFICE

The following candidates for election to SIP offices in 2002 were selected by the Nominations Committee. In order to nominate other candidates for these positions, please submit a letter of nomination with the signatures of ten members to our Secretary, Doreen Winstanley by January 1, 2002. **Ballots will be available to members in early 2002.**

PRESIDENT



Harry K. Kaya

Education:

B.S. Entomology, 1962 (U. of Hawaii); M. S. Insect Ecology, 1966 (U. of Hawaii). Ph.D. Insect Pathology, 1970 (U. of California, Berkeley).

Experience:

Professor and Chair, Department of Nematology, University of California, Davis, 1994-present; Professor, Department of Nematology and Department of Entomology, University of California Davis, 1984-present; Associate Professor 1979-1983; Assistant Professor 1976-1978; Assistant/Associate Entomologist, Connecticut Agricultural Experiment Station 1971-1976.

Memberships and Professional Activities: Member, Society for Invertebrate pathology since 1970; Member Microbial Control Division 1981-present; Member Journal Committee, 1982; Chair, Local Arrangements Committee (Davis), 1984; Chair, New

Initiatives Committee, 1984-1986; Editorial Board, Journal of Invertebrate Pathology, 1985-1987; Member Local Arrangements Committee (La Jolla), 1988; Treasurer 1992-1996; Member, Basic Invertebrate Pathology Slide Atlas Committee, 1997; Member, Founders' Lecture Committee, 1998-present; Chair, Auditing Committee, 1999; Founders' Lecturer Honoring Professor Tanada, 1999. Entomological Society of America (ESA): Secretary, Subsection Ce, 1984; Chair-elect 1985; Chair, 1986; Judge Student Papers Section C, 1990; ESA Pacific Branch Member, Membership Committee, 1983-1987; Member, Auditing Committee, 1985, 1987; Recipient of C.W. Woodworth Award, 1998; Society of Nematologists: Member, Education Committee, 1980-1983; Member, Membership Committee, 1985-1986; Chair, 1987; Member Local Arrangements Committee (Davis), 1989 and (Monterey) 1999; Associate Editor, Journal on Nematology, 1984-1985; Editorial Board 1987-1989; Member, Committee for Insect Nematology, 1992-1993.

Member, IOBC, Member Hawaiian Entomological Society. Editor, Biological Control. USDA Competitive Grant Panel, 1986, 1994; Member Southeastern Regional Project S-301, 1979-present; Secretary 1984-1985; Chair-elect, 1985-1986; Chair, 1986-1988. Lecturer for Latin America Course on Microbial Control (Mexico), 1993 and (Argentina), 1996. Co-organizer First (1989) and Second (1995) Symposium on Entomopathogenic Nematodes.

Interests:

General insect pathology with emphasis on entomopathogenic nematodes. Research areas include soil ecology, nematode behavior, microbial control of soil pests, and effect of stressors on increasing invertebrates to pathogens.

VICE PRESIDENT



Flavio Moscardi

Flavio Moscardi received his B.S. degree in Agronomy at the Agricultural School "Luis de Queiroz"- University of São Paulo, in Piracicaba, SP, Brazil, in 1973. He was hired by Embrapa (Brazilian Organization for Agricultural Research) in 1974. He conducted his MSc. and Ph.D. studies at the University of Florida, Gainesville, USA 1975-1979, developing his thesis on biological control of the velvetbean caterpillar, *Anticarsia gemmatalis* (MSc) and on the bioecology of this insect on soybean (Ph.D.).

Back in Brazil in June 1979, he was located at the National Soybean Research Centre of Embrapa, where he remains to this day as an Entomologist/Insect Pathologist. His main duties are to develop integrated pest management tactics to control insect pests of soybean, especially through the use of microbial insecticides for the biological control of pests. His main accomplishments have been the contributions for the implementation of a soybean IPM program in Brazil and the development of a program for the use of a baculovirus insecticide against the soybean caterpillar, *Anticarsia gemmatalis*, which is currently used in over 1,400,000 hectares/season in the country.

Dr. Moscardi has generated over 200 publications, including scientific papers, book chapters, and specific publications of Embrapa. He is also a participating professor at the University of Parana State and the University of Londrina, in the areas of entomology and insect pathology, and has been the major advisor of many post graduate students. He

was the General Director of Embrapa-National Soybean Research Centre from 1990-1995.

Dr. Moscardi is a member of the Brazilian Council for Scientific and Technological Development (CNPq). He is the President of the Entomological Society of Brazil since August 1998, Honorary member of the Entomological Society of Argentina, Chair of the Continuing Committee for the World Soybean Research Conference, and member elected of the Council for the International Congresses of Entomology. He has acted as consultant in IPM and Biological/Microbial Control in many countries, such as Argentina, Paraguay, Uruguay, Nicaragua, Caribbean countries, Indonesia, The Philippines, North Korea, and India, among others.

Due to his activities in IPM and biological control, Dr. Moscardi has been the recipient of 19 prizes and awards, the most important being: 1983- Young Scientist Award, first place, Brazilian Council for Scientific and Technological Development, Brazil for development of a baculovirus for the control of the soybean caterpillar; 1991- Frederico de Menezes Veiga Award, Embrapa, for relevant contribution to the agriculture of Brazil; 1995- Award of Distinction, International Congress of Plant Protection, The Hague, The Netherlands, for important contributions in plant protection for the benefit of all; 1997- Award of Agriculture 1996, Third World Academy of Sciences, Third World Network of Scientific Organizations, Italy, for relevant contributions in plant protection and environmental conservation; 2001- Medal of Scientific and Technological Merit by the Governor of the State of São Paulo, for important contributions to Brazilian agriculture; and 2001- Medal of Professional Merit, The Brazilian Council of Engineering, Architecture and Agronomy, for relevant contributions to the agriculture of Brazil.

Dr. Moscardi has been the Chair or helped in the organization of important scientific events such as the Brazilian Congress of Entomology, International Congress of Entomology, International Congress of Plant Protection, and the Biological Control Symposium. He has been a member of SIP for many years and is the Chair of the next International Colloquium of Invertebrate Pathology and Microbial Control (Foz do Iguassu, 18-23 of August, 2002).

VICE PRESIDENT



Just M. Vlák

Just M. Vlák received his MSc in Biology (with honors) from the University of Utrecht in 1971, majoring in Biophysical Chemistry and Experimental Embryology. In 1976 he finished his PhD at the same university studying adenovirus DNA replication. In the same year he assumed the position as assistant professor at Wageningen University to begin invertebrate virus research at the Laboratory of Virology and to introduce animal virology and insect pathology in the education program. His sabbatical year in 1980 with Dr. Max Summers at the Department of Entomology at Texas A & M University, College Station, further shaped his scientific career. At present he teaches 'Insect Virology', 'Biotechnology and Crop Protection' and 'Immunotechnology' and chairs the Biology program of Wageningen University. He served as a member of the University Council (1994-1997). In 1982 he was promoted to associate professor, in 1986 to senior lecturer and in 1996 to full professor (distinguished chair). He holds an honorary professorship from the Chinese Academy of Sciences.

He served on many national and international committees including the International Committee on Taxonomy of Viruses (ICTV) as Executive Officer (1984-1988) and recently joined the baculovirus working group within the ICTV. He is a member of the American Society for Microbiology, the British Society for General Microbiology and the Society for Invertebrate Pathology. He has been editor (1987-1994) and editorial board member (1986-1987; 1995-2000) of the Journal of General

Virology and associate-editor of the Journal of Invertebrate Pathology (1993-1996), a position renewed in 2000. At present he is also an editorial board member of Archives of Virology.

His research over the last two decades revolved around the biology, pathology and molecular genetics of baculoviruses and its applications in biotechnology and microbial control. Major emphasis was placed on the structure and function of baculovirus genes, the ecological behavior and biosafety of (recombinant) baculoviruses in greenhouses, the cytopathology of baculovirus infections and on baculovirus genomics and phylogeny. He initiated the development of Spod-X^R as a commercially successful bioinsecticide for the control of beet army worm and has recently completed the sequencing of three baculovirus genomes. Furthermore, he worked on the identification of the *Bacillus thuringiensis* toxin receptor. Recently he became interested in viruses of aquatic organisms, in particular white spot syndrome virus of shrimp. This is one of the largest DNA viruses to date (300 kilobase pairs in size) and a member of a newly-established virus family. He published about 170 papers in peer reviewed journals, edited three books related to invertebrate pathology and he published over 350 abstracts.

Just Vlask is a long-time member (since 1978) of the Society for Invertebrate Pathology and contributed over 75 papers to annual meetings and international colloquia of the Society. He has also contributed directly to the operation of the Society, serving in various capacities. In 1986 he chaired the organizing committee of the IVth International Colloquium on Invertebrate Pathology and Microbial Control held in Veldhoven, the Netherlands, and again in 2001 for the 34th Annual Meeting of the Society in Noordwijkerhout, the Netherlands. He has been a member of the Meetings Board Committee 1987-2000 and chaired this committee since 1994-2000. He served on the Nomination Committee in 1995.

As vice-president he will encourage the completion of the divisional structure and the involvement of each division in the programming of annual meetings. He will further promote the international character of the Society alternating meetings between North America and the rest of the world to serve the world-wide membership of the Society. He will also strive to enhance the international recognition, representation and visibility of

invertebrate pathology and microbial control as an important discipline in the biological sciences.

Finally, he will strive for a healthy Society both scientifically and socially, in particular encouraging young scientists to participate Society's affairs. Microbial control can play an important role in sustainable agriculture and human health in the future and the Society's activities should strongly support this development by promoting high-quality basic and applied science in insect pathology.

TREASURER



Sargeet Gil

Education:

B.Sc. McGill University, Montreal, Canada, 1969.
Ph.D. University of California, Berkeley, CA, 1973.

Experience:

Professor and Entomologist, Department of Cell Biology and Neuroscience, University of California, Riverside, 1999 – Present; Director, Environmental Toxicology Graduate Program, University of California, Riverside, Professor and Toxicologist, Department of Entomology, 1993-1999 Associate Professor and Toxicologist, 1988-1993; Assistant Professor, 1983-1988; Assistant Professor, Medical Physiology and Pharmacology, School of Medicine, Southern Illinois Univ. at Carbondale, 1982; Assistant Research Toxicologist, University of California, Davis and Riverside, 1980-1982; Lecturer-tenured, School of Biological Sciences; Universiti Sains Malaysia, Penang, Malaysia; 1977-1980; Lecturer-tenured, School of Biological

Sciences,

Membership and Professional Activities:

Member of Society of Invertebrate Pathology, since 1988; American Chemical Society, since 1983; American Association for the Advancement of Science, since 1983; Past member of Entomological Society of America, Society of Toxicology; Society of Environmental Toxicology and Chemistry, Society for the Study of Xenobiotics.

Served on national grant review panels including NIH 1987-1989, 1993, 1999; USDA, Entomology study section 1987-88, 1997. Member of Editorial Board, *Ann. Rev. Entomology* 1993-1998; Member of Editorial Board, *Insect Biochemistry and Molecular Biology*; 1997-Present; Member of Editorial Board, *Research in Chemical Toxicology*, 2000-Present; Executive Board Member, Univ. California, Toxic Substances Research and Training Program, 1993-1998; 2001-Present.

Interests:

The laboratory has three principal research areas, all utilizing a cellular and molecular approach to elucidate the mechanisms of toxicity and cell membrane transport. The first area attempts to elucidate the mode of action of *Bacillus thuringiensis* insecticidal toxins. The second involves cell membrane transport in the gut and nervous system of insects. The third, a collaborative project, involves elucidation of mechanisms of insect ecdysis.

TREASURER



Suzanne Theim

Education:

B.S. (Elementary Education) 1972, Virginia Commonwealth University; M.S. (Biology) 1983, Virginia Commonwealth University; Ph.D. (Biochemistry) 1989, University of Idaho.

Experience:

Postdoctoral Research Associate, University of Georgia, 1989; Postdoctoral Research Associate, Michigan State University, 1989-1991; Assistant Professor of Entomology and Microbiology, Michigan State University 1991-1997; Associate Professor of Entomology and Microbiology, Michigan State University 1997-present.

Memberships:

Society for Invertebrate Pathology, 1991-present, Vice-chair, Virology Division 1995-96, Chair, Virology Division 1996-98; American Association for the Advancement of Science, 1983-present; American Society for Microbiology, 1985-present; American Society for Virology, 1991-present; Sigma Xi, 1997-present, Membership Committee 1999-2001.

Interests:

Insect virology, host/pathogen interactions, molecular and cellular bases of virus host range and pathogenesis.

SECRETARY



Raymond Akhurst

Education:

BSc (Hons) 1970 (University of Sydney); MSc 1974 (University of Tasmania); PhD 1982 (University of Tasmania)

Experience:

Senior Principal Research Scientist, CSIRO Entomology, Canberra, 1995-present; Deputy Program Leader, Biotechnology, CSIRO Entomology, Canberra, 1989-1999; Principal Research Scientist, CSIRO Entomology, Canberra, 1987-1995; Shaw Distinguished Visitor, University of Wisconsin-Milwaukee, 1990; Senior Research Scientist, CSIRO Entomology, Hobart/Canberra, 1983-1987; Experimental Officer, CSIRO Entomology, Hobart, 1970-1983.

Membership: Society for Invertebrate Pathology, from 1985: Organising Committee, 1990 International Colloquium on Invertebrate Pathology and Microbial Control; Member-at-Large, Bacteriology Division 1999 – 2001. Australian Society for Microbiology, from 1980: ACT Branch Committee 1988 -94; National Councillor 1991-94; Chair, ASM Foundation Committee 1993-present; Chair, Organising Committee, 1995 Annual Scientific meeting; ASM Trustees Committee, 1996; Public Officer, 1999- present. The Australian Entomological Society, 1972-present.

Professional Activities:

Editorial Board, *Biological Control, Theory and Practice in Pest Management*, 1991- present. Convenor, 2nd Canberra *Bacillus thuringiensis* Meeting, 1993. CSIRO Division of Entomology Consultative Committee, 1994 – 1996. Chair, Organising Committee, Annual Scientific Meeting of the Australian Society for Microbiology, Canberra, 1995. Editorial Board, *Microbiology Australia*, 1995 – present. CSIRO Entomology Budget Committee, 1996 – 1999. Member, Standing Committee for the Pacific Rim Conference on the Biotechnology of *Bacillus thuringiensis* and Its Environmental Impact, 1996 – present. Editorial Board, *Australian Journal of Entomology*, 1997 – present. Convenor, 4th Pacific Rim Conference on the Biotechnology of *Bacillus thuringiensis* and Its Environmental Impact, Canberra, 2001

Interests:

Bacillus thuringiensis insecticidal proteins. Mechanism of and managing resistance to Bt proteins. *Xenorhabdus* and *Photorhabdus*, bacterial symbionts of entomopathogenic nematodes. Entomophilic nematodes. Microbial control of insects.

SECRETARY**Michael Brownbridge***Education:*

B.S. Agricultural Zoology, 1979, Univ. of Newcastle Upon Tyne, Newcastle Upon Tyne, UK.

Ph.D. 1985. University of Newcastle Upon Tyne. Doctoral Thesis 'Evaluation of Bacteria as Control Agents of Pasture Leatherjackets (*Tipula* spp.: Tipulidae)'.

Professional Experience:

1984-1986. Post Doctoral Research Fellow. Dept. Biology, Ben Gurion University, Beer Sheva, Israel. Isolation, evaluation and formulation of entomopathogenic bacteria for mosquito control; mode of action of *Bacillus thuringiensis* var. *israelensis*; effects of environmental factors on persistence and toxicity of mosquito pathogens.

1987-1990. Post Doctoral Research Fellow. International Centre of Insect Physiology and Ecology (ICIPE), Nairobi, Kenya. Research: Evaluation of Bt for control of lepidopteran cereal pests; formulation and field testing of Bt against cereal stem borer and African armyworm.

1990. Research Scientist. ICIPE, Nairobi, Kenya. Research: Formulation and field testing of Bt for cereal stem borer control in multi-locational and -varietal trials.

1990-present. Research Assistant Professor (1990-97); Research Associate Professor (1997-to date), University of Vermont, Burlington, VT, USA. Primary Research: Evaluation of fungal entomopathogens for control of thrips, whitefly and aphids in greenhouse crops, and their

integration with other crop management practices; assessment of the role of fungi in the regulation of forest and tree pests, including pear thrips, avocado thrips and gypsy moth; effects of microbial control agents against predators, parasitoids and other beneficial non-target arthropods. Outreach: Promotion of best management practices and IPM in greenhouse crops.

Current International Activities:

Univ. of Vermont-Univ. Haifa, Israel-ICIPE, Kenya.

'A Sustainable IPM Program for the African Armyworm, *Spodoptera exempta*'. Development of a low input, biologically-based pest management strategy for use by small-scale, resource-limited farmers in rural Kenya.

Univ. of Vermont-Univ. Tel Aviv, Israel-EARO,

Ethiopia. 'A Simple Mass-Production Process for Entomopathogenic Fungi in Ethiopia'. Development of indigenous capacity and protocols for mass production of fungal entomopathogens for crop protection in Ethiopia.

Univ. of Vermont-Univ. of Haifa, Israel.

'Assessing the Environmental Impact of Biopesticides Using Collembola'. Use of Collembola in ecotoxicological studies to assess potential risks to the soil ecosystem following application of biological and biorational pesticides.

Univ. of Vermont-Horticultural Research and Advisory Station, Gosford, NSW, Australia.

'Development of Mycopathogens to Enhance Biologically-Based Thrips Management Systems in Australia'. Development of entomogenous fungi for use together with other biological controls for management of thrips and other arthropod pests in greenhouse vegetables.

Memberships:

SIP; Assn. of Applied Biologists; Institute of Biology; Ohio Florists' Assn.

Professional Activities:

Univ. of Vermont: Northern New England Tri-state Greenhouse IPM Advisory Group; College of Agriculture and Life Sciences International Committee. Secretary, SIP Division of Fungi; Member-at-Large, SIP Division of Microbial Control (1999-2000). *Editorial Board:* J. Invertebr. Pathol. *Reviewer:* Insect Sci. Applic., Biocontrol Sci. Technol., Biological Control, J. Nematol., J. Sustainable Agric. *Scientific Reviewer:* American

Floral Endowment.

Interests:

Making microbials work! Fungal and bacterial entomopathogens, interactions with other control agents, non-target effects, influence of host-plants on activity. Increasing interest in nematodes. International travel and sustainable agriculture, bringing about change in chemical-based agricultural practices. Rugby, soccer, good company and laughing.

TRUSTEE



Hisanori Bando

Education:

B.Sc. (Insect Pathology) 1980, Kyoto Institute of Technology; Ph.D. (Insect Virology) 1985, Nagoya University.

Experience:

Researcher, Department of Evolutionary Genetics, National Institute of Genetics, 1985-1986; Assistant Professor, Laboratory of Microbiology, School of Medicine, Mie University, 1986-1989; Lecturer, Laboratory of Microbiology, School of Medicine, Mie University, 1989-1990; Associate Professor, Laboratory of Applied Molecular Entomology, Faculty of Agriculture, Hokkaido University, 1990-1999; Professor, Laboratory of Cell Biology and Manipulation, Graduate School of Agriculture, Hokkaido University, 1999-2000; Professor, Laboratory of Applied Molecular Entomology, Graduate School of Agriculture, Hokkaido University, 2000-present.

Memberships:

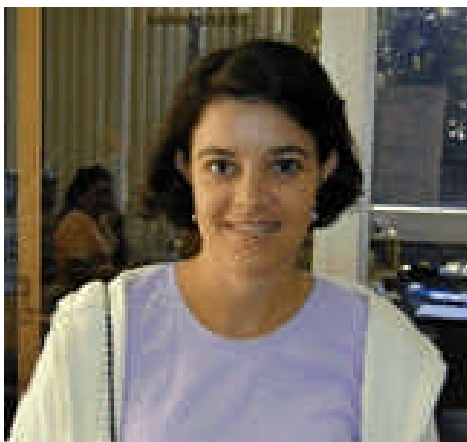
Japanese Society for Sericultural Science, 1980-present; Trustee, 2001-; Japanese Society for

Virology, 1986-present; Japanese Society for Molecular Biology, 1989-present; Society for Invertebrate Pathology, 1990-present; American Society for Microbiology, 1995-present.

Interests:

Molecular biology of insect viruses, in particular "Molecular bases of virus host range" and "Regulatory network in viral gene expression".

TRUSTEE



Alejandra Bravo

Education:

B.Sc. University of Mexico, Biomedical Research Institute, Mexico City, Mexico 1984.

Ph.D. University of Mexico, Nitrogen Fixation Research Center, Cuernavaca, Mexico 1989.

Experience:

Professor, Titular Researcher "C", Biotechnology Institute, University of Mexico, 2000 – Present;

Associate Professor, Titular Researcher "B", Biotechnology Institute, University of Mexico, 1996 – 2000;

Associate Professor, Titular Researcher "A", Biotechnology Institute, University of Mexico, 1993 – 1996;

Assistant Professor, Associated Researcher "C". Biotechnology Institute. University of Mexico, 1989 – 1993;

Assistant Professor, Associated Researcher "B", Biotechnology Institute. University of Mexico, 1988 - 1989

Membership and Professional Activities:

Member of Society of Invertebrate Pathology, since

1992; Mexican Society Biochemistry, since 1989; Mexican Society of Microbiology since 1989. Served on national grant review panel of CONACyT and several international grant review panels including COLCIENCIAS, Binational Science Foundation, Wellcome Trust, International Foundation for Science. Reviewer of Asia-Pacific Journal of Molecular Biology and Biotechnology, Gene, Journal Invertebrate Pathology, Revista Latinoamericana de Microbiología, Journal of Industrial Microbiology, Journal of Immunological Methods, Journal of Bacteriology., Biochimica Biophysica Acta, Biochemistry, Journal of Membrane Biology. Member of Editorial Board Journal Invertebrate Pathology 1999- present.

Interests:

My laboratory has two principal research areas: one is isolation and characterization of novel insecticidal Cry toxins from *B. thuringiensis* strains, that could be used to control important insect pests in health and agriculture in Mexico. The second is the study of the mode of action of *Bacillus thuringiensis* Cry toxins. This research aims to gain a molecular understanding of how these toxins interact with cell membranes, resulting in disruption of ion regulation. Current research projects include the elucidation of toxin structure and function relationships, the characterization of receptors involved in toxin activity, and toxin gene expression.

TRUSTEE



Jeroen Van Rie

Aventis CropScience, J. Plateaustraat 22, 9000 Gent Belgium, tel: 32 9 2358489, fax: 32 9 2240694
email: jeroen.vanrie@aventis.com

Education:

B.Sc (1987) Agricultural Engineering, Univ of Gent, Belgium

Ph.D. (1991) Biotechnology, Univ of Gent, Belgium

Experience:

Scientist (1992-1997) at Plant Genetic Systems, Belgium

Senior Scientist (1998-) at Aventis CropScience, Belgium

Memberships:

Society of Invertebrate Pathology

Editorial board of Applied and Environmental Microbiology (2002-)

Interests:

Insecticidal proteins, mode of action of bacterial toxins including Cry proteins from *Bacillus thuringiensis*, biochemical basis of insect resistance to Bt, insect resistance management, transgenic plants for insect control, structure-function relations in proteins.

TRUSTEE

John Vandenberg

Education:

B. S. (with Honors; Natural Resources) 1975, University of Michigan; M. S. (Entomology) 1977, University of Maine; Ph. D. (Entomology) 1982, Oregon State University.

Experience:

Postdoctoral Research Associate, Boyce Thompson Institute, Ithaca, NY, 1982; Research Entomologist, USDA-ARS, Beltsville, MD 1983-1987; Supervisory Research Entomologist and Research Leader, USDA-ARS, Bee Biology & Systematics Laboratory, Logan, UT 1987-1993; Research

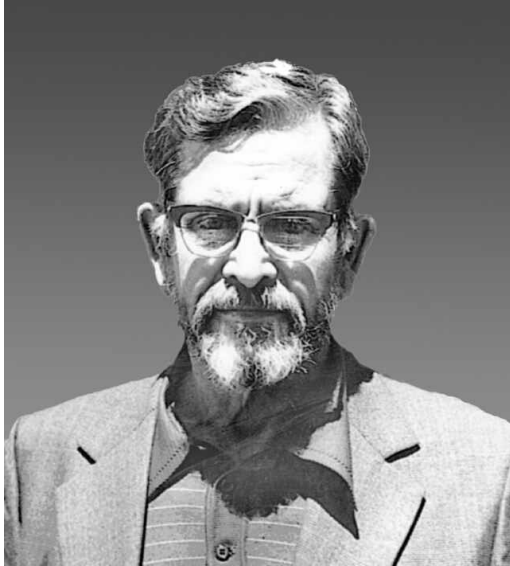
Entomologist and Lead Scientist, USDA-ARS, Ithaca, NY 1993-present; Adjunct Professor of Entomology, Cornell University, 1994-present.

Membership and Professional Activities:

Editorial Board, Journal of Invertebrate Pathology 1998-present; Society for Invertebrate Pathology 1976-present; Member, Fungus Division and Microbial Control Division; Nominating Committee, 1989-1991; Program Chair, Annual Meeting, 1995; Secretary-Treasurer, Chair-Elect, Chair and Past Chair, Microbial Control Division, 1993-2001; Symposium Organizer, 1991, 1992, 1995 and 1997; Workshop Organizer, 1993, 1995, 1996 and 1998; New Initiatives Committee, 1994-1996; Chair, By-Laws Committee, 1995-1999; Database and Web Site Committee, 1998-2000; Judge, Student Presentations, 1998, 2000, 2001; Annual Meeting Program Committee, 1999; Founders Lecture Committee, 2001-present. Entomological Society of America 1976-present; Graduate Student Committee, 1976-1977; Nominee, Secretary-Elect, Section C, 1997; Judge, Student Presentations, 1997, 1999-2001; Recognition Awards Committee, Eastern Branch, 1998; Symposium Organizer, Joint Meeting with Amer. Phytopath. Soc., 1998; Secretary, Chair-Elect and Chair, Subsection C (Insect Pathology and Microbial Control), 1998-2001; Symposium Organizer, Joint Meeting with Canadian Ent. Soc., 2000. Sigma Xi 1977-present; Secretary, Vice-President and President, Utah State University Chapter, 1989-1992. Organizer, "International Workshop on Non-Apis Bees and Their Role as Crop Pollinators," Logan, Utah, 1992. Member, American Association for the Advancement of Science, 1997-present; International Organization for Biological Control, 1994-present; S-301 Cooperative Regional Project (Development, Evaluation And Safety Of Entomopathogens For Control Of Arthropod Pests), 1994-present.

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

OBITUARIES



VICTOR SPRAGUE
(1908-2001)

Victor "Vic" Sprague, an internationally known and respected protozoologist and microsporidiologist, died at home on August 31, 2001, in Lusby, Maryland at the age of 92. Victor was a member of the Organizing Committee (headed by Edward A. Steinhaus) that established the Society for Invertebrate Pathology in 1967 and served as one of the original Trustees. Victor was a Founding and Emeritus Member of the Society, served for many years as a member of the Editorial Board of *Journal of Invertebrate Pathology* and was the Chair of the Organizing Committee that in 1969 served to establish the Microsporidia Division. This became the first Division of the Society approved by the SIP Council in 1970.

In 1989, at the XXII Annual Meeting of the Society in College Park, Maryland, Victor received the highest honor the Society can bestow on a member by selecting him to present the Founders Lecture honoring his mentor Richard Roksbro Kudo. Victor was also an active member of the Society of Protozoologists for many years and was awarded honorary membership to the International Society of Protozoology in 1998. In addition, he served for many years on the editorial board of the *Journal of Protozoology* (now *The Journal of Eukaryotic Microbiology*).

Victor was born on November 16, 1908, in Fayette County Illinois. He received his B.Ed. in 1932 from Southern Illinois University, Carbondale. He began

studies in protozoology at the University of California, Berkeley, in 1935 under Professor Charles Atwood Kofoid and Dr. Lauren E. Rosenberg. During this time, he learned of Dr. Kudo at the University of Illinois and decided to pursue his studies with the man he considered to be the "most illustrious protozoologist of the time." He was accepted at the University of Illinois in 1937 and received his M.S. in 1938 and his Ph.D. in 1940 under the direction of Dr. Kudo. Victor provided many interesting details and insights of his time as a graduate student with Dr. Kudo in his Founders Lecture (JIP 55, 297-305, 1990), which highlights the special relationship that existed between them. It is also here where Victor recounts what Dr. Kudo considered his "hobby," the study of the Microsporidia, which eventually became Victor's "life's work."

Victor's professional career began as an Instructor at Marshall College in West Virginia where he taught from 1940-1942. His career was interrupted by WWII during which Victor served in the US Army as a Captain of the 4th Medical Laboratory. During this time he worked on the influenza virus and served on a committee for German flu prevention with Jonas Salk. Victor served from January 9, 1943 until July 9, 1946 when he received an honorable discharge. He resumed his professional career as an Instructor at Louisiana State University in Baton Rouge, LA from 1946-1948 and at Loyola University, Chicago, IL from 1948-1950.

During the next 10 years (for unknown reasons) Victor left academic circles for other pursuits one of which was working for Ward's Biological Supply Company. In 1961, Victor accepted a position at the University of Maryland, Chesapeake Biological Laboratory, Solomons, MD as an Associate Professor until 1969 and Full Professor until his retirement in 1978. It was here that Victor began in earnest his pursuit of his major research interest, the Microsporidia.

Victor authored or co-authored well over 100 research articles, mostly on Microsporidia, a career which covered nearly 6 decades. His first publication on the Microsporidia was in 1941 where he described *Pleistophora kudo* (Sprague & Ramsey, 1941) in *Blatta orientalis* and culminated with 2 contributions in 1999 to *The Microsporidia and Microsporidiosis* (Murray Wittner, Eds, American Society for Microbiology, Washington, DC).

During his long career, Victor published thorough and detailed descriptions of Microsporidia from a broad range of host groups including insects, decapods (both freshwater and marine), fish, and mammals. He made an early yet important contribution to the study of Microsporidia in man with the description in 1974 of *Brachiola connori* (Sprague, 1974).

Victor is perhaps best known and appreciated for his numerous contributions on microsporidian systematics. To this day, the contribution by Victor and Jiri Vavra in the *Comparative Pathobiology* series of L. A. Bulla and T. C. Cheng (1977) on the *Classification and the Phylogeny of the Microsporidia* is the most comprehensive monograph on microsporidian systematics published. Here, 46 genera were recognized and 695 species were described in detail with over 950 titles of publications listed.

He devoted his retirement years to microsporidian systematics and in 1992 produced a contribution "*Taxonomy of Phylum Microspora*" (Critical Reviews in Microbiology, 18, 285-395) where he presented taxonomic summaries for 118 available generic names and proposed a new classification system for the Microsporidia. He remained devoted to the systematics of the Microsporidia to the end with his final contribution in 1999 providing a "*Checklist of Available Generic Names for the Microsporidia with Type Species and Type Hosts*" in *The Microsporidia and Microsporidiosis* (Murray Wittner, Eds, American Society for Microbiology, Washington, DC) where he listed 144 genera.

Victor is survived by four children, Jannette Williams of Lusby, MD, Sylvia Clark of Gettysburg, PA, Michael M. Sprague of El Paso, TX, and Laura M. Sprague of San Pedro, CA; one sister Ola Smith of Illinois and grandchildren Melina and J.D. Williams; Leroy and Adam Lucas; Laura, Melisa, Aaron and Anthony Clark; Van, Brian, Kevin, Michelle, and Mickey Sprague; Samuel Bowers; and one great grandchild Victoria Henderson. The family asks that any charitable contributions be made to Calvert County Hospice (P. O. Box 838, 238 Merrimac Court, Prince Frederick, MD 20657) in Dr. Sprague's name.

Victor's loss will be keenly felt by his many colleagues and friends around the world but perhaps the greatest loss will be to the field of

Microsporidology which has seen one of its most devoted and experienced voices silenced. "Vic's" published contributions and his meticulous attention to detail and accuracy will forever serve as a lasting memorial to him and his "life's work."

James J. Becnel

*U.S. Department of Agriculture, Agricultural Research Service
Center for Medical, Agricultural and Veterinary Entomology
Gainesville, Florida, 32604*



CHRIS J. LOMER
(1957- 2001)

Chris Lomer died very unexpectedly of a brain haemorrhage on October 17th, 2001, during a visit to Australia. His many contributions to the field of insect pathology, and more importantly, his joy in life, his enthusiasm and optimism, his humour and his comradeship will be sadly missed by everyone who was lucky enough to have known him. He will be missed especially by his wife Suvi living in Copenhagen and his daughter Sylvie, living with her mother in South Carolina, US and his family in

England, by whom he is survived.

Chris was born on 16th of July, 1957 in Oxford. As Chris phrased it, he became an entomologist, because this is the most natural thing to become interested in, when you are a little boy who observes nature with open eyes. His first passion was his insect collection - which was started when he was 6 years old and consisted mostly of beetles. This collection is now housed at University of Oxford Museum, and includes specimens from all the places he visited.

After graduating in natural sciences from Fitzwilliam College, Cambridge, Chris received a MSc in Entomology from Imperial College, London in 1980. From 1980 until 1984 he worked as a research entomologist in the Seychelles. There, he started his career as an insect pathologist studying pathogens (especially baculoviruses and *Metarhizium anisopliae*) for biological control of rhinoceros beetles in palms. Being in such a remote location, he could only receive minimal help from his supervisors (Graham Matthews of IC, Silwood Park and Tom Tinsley of IEVM, Oxford), but he managed a programme which ended with the selection of a highly virulent virus strain and its dissemination across the whole archipelago. From 1984 until 1986, Chris studied the biodiversity of this virus across the world using molecular characterisation techniques whilst based at the Institute for Virology in Oxford. The *Baculovirus oryctes* work became the content of Chris' Ph.D. thesis (University of London, 1986). Soon after, Chris moved again to a tropical island. In Indonesia, Chris was responsible for a programme to control *Pseudomonas syzygii* in clove trees. This involved large-scale pesticide trials against the vector (*Hindola striata*) and the evaluation of newly discovered natural enemies, which had been discovered in West Sumatra.

Most colleagues however, know Chris in connection with the LUBILOSIA Programme (biological control of grasshoppers and locusts), which he joined in 1991 and became programme leader in 1994. Together with Cécile and Sylvie, Chris came to Africa as employee of IIBC (now CABI Bioscience) to lead the West Africa group of LUBILOSIA scientists based at the International Institute of Tropical Agriculture (IITA) in Cotonou, Benin. This is when most of us first met, whether in Africa or in UK, and became colleagues and very good friends.

Many of us were new to Africa, some of us in the tropics for the first time, but Chris helped us to take things in our stride. At that time, Africa had just recovered from its' latest large desert locust outbreak, and many research groups world-wide were looking into alternatives to environmentally damaging large scale insecticide applications. What was one of many approaches at the beginning of this project, turned out to become very successful, and in 1991, Chris and the rest of the team successfully applied oil based formulations of *Metarhizium anisopliae* to natural desert locust populations in the Sahara desert in northern Niger Republic, for the first time.

Chris was an excellent communicator and with the introduction of e-mail at IITA, he developed links with similar programmes across the whole world. His communication skills made him an excellent programme leader for the next two phases of the LUBILOSIA programme, eventually as employee of IITA. We remember talking to Chris in his office about one thing, while he was writing e-mails on a different topic, apparently without feeling this to be stressful. No secretary could type on the keyboard faster than Chris, and this is also how he talked. At the beginning, the non-native English speakers among us found it hard to follow Chris' enthusiastic and incredible rapid way of speaking, but we soon learned to keep up with him. Under Chris' leadership LUBILOSIA became a very exiting and large programme, with many partners from Africa, Europe, North America and Australia. The LUBILOSIA strain of *Metarhizium anisopliae* var. *acridum* (IMI 330 189) is now commercialised under the name 'Green Muscle' and is probably the most intensively studied product for grasshopper and locust control, ever developed. The success of this programme encouraged Chris to develop similar approaches for many other tropical pests, including termites, banana weevil, maize stem borers and storage pests. Today, microbial control using entomopathogenic fungi has become a popular approach all across Africa. Apart from microbial control projects, Chris became also responsible for all non-ipm biological control projects at IITA. This included the classical biological control of water hyacinth, the world-wide most common water weed. At IITA, Chris was highly respected by the local staff. He helped several Benin colleagues to start their own international scientific careers. They admired him for his dynamic approach and the opportunities he created for everybody.

In 1999, Chris left IITA, to follow his new wife, Suvi Rautio-Lomer to Ankara, Turkey, where she managed the UNICEF office. It was also typical of Chris, that he had sorted himself out very quickly and became assistant professor at Bilkent University. This is a privately owned university mainly active in new technologies. Always keen to keep up to date, Chris started to learn molecular biology techniques, and offered his experience in a top-standard course for students. Only one year later, Suvi and Chris moved to Copenhagen, Denmark, where they bought a beautiful old apartment in the centre of town. They loved life in Copenhagen, where people care for their environment, where the bicycle is a major means of transport, which you can take where-ever you want at any time of the day. He once said: "Scandinavian cities are probably the most civilized places on earth". Danish became, we believe the fifth or sixth language Chris could at least use for basic communication. Chris was welcomed by Jørgen Eilenberg and his team at KVL, and although he did not officially hold a post at the University, he actively participated in many of the departments research projects. He devoted his time and intellect into writing proposals for new initiatives to fund future work within the department. Recently one of his major activities was the harmonisation of biopesticide regulations, within the EU funded BIPESCO project on biocontrol using *Metarhizium* and *Beauveria*.

Chris was an enthusiastic supporter of SIP, and particularly enjoyed the societies' social environment. He had this year been selected as member at large for the Microbial Control Division. He has organised several interesting seminars and symposia for SIP the last of which concerned the Environmental Impact of Microbial Pesticides (together with Heikki Hokkanen). One of Chris' last major contributions was his summary of work on biological control on grasshopper and locusts just recently in the Annual Review of Entomology (Lomer, C.J., Bateman, R.P., Johnson, D.L., Langewald, J., and Thomas, M.B. 2001. Biological control of locusts and grasshoppers. *Ann. Rev. Entomol.*, **46**: 667-702).

Chris' enthusiasm and curiosity inspired many of us. Whenever Chris became fascinated by research topics or novel insights into life, he could hardly be stopped. Chris' comradeship and team spirit were outstanding and the basis for many successes in his professional life, but also the root for many

friendships. We will miss Chris' positive approach to life, his humour and his loud laughter forever.

SIP TO ESTABLISH MEMORIAL FUND

The strong network of colleagues, collaborators and friends that makes up SIP is always deeply saddened when we lose one of our members to illness, age or fate. Until now, we have not had a formal way to simultaneously express our grief and to honor the memory of the colleague that we have lost. The recent establishment of the SIP Memorial Fund, with Chris Lomer as the first SIP member so honored, will help to address that need.

As his obituary illustrates, Chris' career was defined by his desire to bring the benefits of microbial control to the farmers and inhabitants of the developing world. For this reason, donations made to the Memorial Fund in Chris Lomer's name will be used to provide grants to support travel to SIP meetings for insect pathologists working in the developing world.

Contributions to the SIP Memorial Fund in Chris Lomer's name may be made in several different ways: Credit card or wire transfer payments can be made by following instructions on the "Memorial Fund" section of the SIP website (<http://www.sipweb.org>). Alternatively, checks or money orders (in U.S. dollars) can be mailed to: **The Society for Invertebrate Pathology, 7413 Six Forks Rd. #114, Raleigh, NC 27615 USA**. Please note Chris Lomer's name on the check or on a cover letter to allow the donations to be correctly identified.

To obtain guidelines for the establishment of a Memorial Fund for other SIP members, contact Wendy Gelernter, SIP Endowment and Development Committee Chair (gelernt@pace-ptri.com or: c/o PACE Consulting, 1267 Diamond St., San Diego, CA 92109 USA).

NEWS ITEMS

SIP Student Travel Awards

There are a number of opportunities for students to compete for cash awards supporting travel to the SIP annual meetings. Travel awards are offered by several Divisions of the Society, and an endowment was recently established at the bequest of Mauro Martignoni to fund a Society-wide travel award.

The Martignoni Student Travel Award competition is managed by the SIP Endowment and Student Awards Committee.

All of these awards require the recipient to make a presentation, based on their own work, at the annual meeting. The SIP Divisions represent various aspects of invertebrate pathology, and the Division-sponsored travel awards require that the presented work be related to a specific area. The Martignoni Award, on the other hand, is not so restricted. All students are eligible, regardless of their particular area of research within the field of invertebrate pathology

The creation of the Martignoni Award has led the Society to standardize travel award requirements with the principal objective of making it possible for students to apply for both the Division-sponsored awards and the Martignoni Award through a single application that is readily transmissible via e-mail. Standardization was achieved with only one minor exception. In accordance with the wishes of Mauro Martignoni, the Martignoni Student Travel Award recipient must give an oral presentation (contributed or invited symposium paper). Thus, only those applicants submitting oral presentations may be considered for the Martignoni Award. Division-sponsored awards are open to both poster and paper presenters, and these new standards in no way affect eligibility of poster presenters for Division travel awards.

Travel awards represent a significant honor for the recipient. This honor, combined with the cash award, has considerable potential to affect a student's ability to travel to the annual meeting. We are therefore presenting this information well in advance of the SIP official call for papers. By doing so we hope to encourage more students to consider applying for a travel award.

SIP Travel Award Application Instructions

Students and their supervisors are advised to watch the Newsletter and SIP website for specific information regarding travel awards.

Applicants must be students enrolled in a university degree program. They need not be members of the SIP or of any Division sponsoring a travel award.

Applications for Division-sponsored travel awards

should be sent to the Chair of the Division offering the award. The subject matter of the presentation should pertain to the Division. Individuals submitting oral presentations to a Division will automatically be considered also for the Martignoni Award.

Applications with oral presentations on subjects unrelated to that of any Division offering an award should be sent to the Chair of the Endowment and Student Awards Committee for Martignoni Award consideration.

There is no limit on the number of awards a student may apply for in a single year. However, while students meeting all requirements will be considered for multiple awards (for example, one or more Division-sponsored awards and the Martignoni Award), they will be eligible to receive only one travel award per year. Each student will be eligible to receive the Martignoni Award only once. Eligibility to receive Divisional awards more than once will be determined by each Division independently. Students should consult Division chairs for current guidelines.

Required Information

1. Curriculum Vitae. This should include the applicant's name, address, institution, earned degrees, current degree program, honors and awards, research experience, and a list of publications and previous presentations.
2. A short biographical sketch and description of scientific interests and goals.
3. A letter from the supervisor providing a recommendation, verification of student status, and confirmation that the research being presented was conducted by the student.
4. Presentation abstract. The application must include a one-page summary of the presentation including title, authors, and affiliations (this may be the abstract submitted to the Annual Meeting Program Committee). The student's research contribution represents one of the most important selection criteria. Therefore, the abstract should be crafted with care, succinctly describing the research rationale, any unusual or novel methods, and the principal results. An explanation of the significance of the research findings should be offered in

conclusion, based on sound interpretation of the results.

Deadlines

Deadline for submission: April 1

Committee decisions: May 1

Successful applicants will receive an official communication from the appropriate Committee Chair and should confirm their acceptance and participation as soon as possible. The award will be presented at the meeting, but if necessary for travel, can be sent earlier.

Please note the changes from last year's requirements. To streamline the selection process, the requirement for official academic transcripts has been dropped, and travel budgets and accountings of complementary sources of funding are also no longer required. We request that all application information be submitted electronically (via e-mail). This will allow rapid transmission of application packages between selection committee members and between the Divisions and the Endowment and Student Awards Committee.

Microbial Control Slide Atlas Now Available on CD.

The well known and much loved "Color Slide Atlas of Microbial Control" (first made available in 1992) has gone up-market. The two hundred images in this collection have been carefully selected to cover all aspects of microbial control, with images ranging from electron-micrographs to the operational aspects of microbial control, including field trials and application techniques, bioassays, production and formulation of pathogens, and much more. All classes of pathogens are represented in the collection, making this an invaluable aid for educational and scientific presentations. These images are now all available on one CD, to allow easy incorporation into your presentations (no more searching for lost slides). Images are available in JPEG (jpg) format. Figure legends describing each image are also included on the CD.

The Color Slide Atlas of Microbial Control on CD has been developed as an aid for educational presentations and the Division on Microbial Control extends its appreciation to those who contributed images to the collection. No material should be reproduced without permission from the contributor.

The Color Slide Atlas of Microbial Control on CD costs \$35 (US) and may be purchased via check, money order or credit card payment. See the instructions below.

Checks or money orders should be made out to "**Society for Invertebrate Pathology**", payable in U.S. currency only and drawn on a U.S. bank. Checks should be mailed to:

SIP, 7413 Six Forks Rd BOX 114, Raleigh, NC, 27615 U.S.A.

Please indicate the number of CDs requested, the name and address to which CDs should be delivered, and your phone, FAX and e-mail address.

It will be possible to purchase CDs on the SIP website (<http://www.sipweb.org>) via credit card, check, or money order within the next few weeks.

Join the Microbial Control Division!

Membership costs only \$2, and for this you are able to participate in all Division activities: meet at mixers, propose seminars, propose student candidates for travel fund awards to attend SIP meetings, and receive many other benefits. In addition, enjoy the satisfaction of being part of a group that integrates both basic and applied research, has an interest in IPM aspects of microbial control, and helps implement the use of safe and effective microbial insecticides.

Society for Invertebrate Pathology members, past, present and future, are encouraged to join the Microbial Control Division, as well as any of the other SIP Divisions in which they have an interest. Membership in more than one SIP division is not only possible - it is encouraged.

One of the joys of the SIP is the mix of practical and theoretical interests, combining people with great ideas, those who study weird and wonderful pathogens of no earthly use to humanity, and those trying to make a serious living selling biopesticides to farmers. The Microbial Control Division is very much the focal point for this latter aspect of the Society's interests. Please show your support for applied insect pathology by joining the Microbial Control Division.

Closure of the W.H.O. Collaborative Centre for Entomopathogenic Bacteria

Paris, October 23, 2001

Centre Collaborateur de l'O.M.S.
en matière de Bactéries Sporulées
Entomopathogènes pour la Lutte Biologique
contre les Vecteurs de Maladies

As envisaged in my first letter dated November 23, 2000, and in a second on dated July 16, 2001, due to new scientific priorities and re-orientations, the Direction of the Pasteur Institute decided to close the Laboratory of Entomopathogenic Bacteria on November 30, 2001. Besides all of our research activities on the mode of action of entomopathogenic bacteria, one of the major consequences of this decision is that the W.H.O. Collaborative Centre will also stop its activities, which mainly consisted in :

- Identification and serotyping of entomopathogenic Bacillus isolates
- Bio-assays of isolates, primary powders or formulated material on mosquito larvae
- Updating of the classification of Bt and Bs on the basis of H-antigens
- Recording, storage and maintenance of strains in the International Entomopathogenic Bacillus Collection (IEBC) and edition of a catalogue
- Delivery of strains, H-antisera and standard preparations of Bt and Bs

Nevertheless, there is a possibility that the International Entomopathogenic Bacillus Collection be maintained in another entity in the Pasteur Institute where I am moving on December 1, 2001.

Genetics of Bacterial Genomes
Institut Pasteur
28 Rue du Dr Roux 75724 Paris cedex 15, France
Tel : +33 1 40 61 35 56
Fax : +33 1 45 68 89 48
e-mail : jcharles@pasteur.fr

The only "service" which could still be available in this event would be the delivery of strains, H-antisera and standard preparations of Bt and Bs, as far as we have them.

Thank you very much for your warm support and for your comprehension,
Jean-François Charles

Moving?

Please prepare a paragraph including information about past and present postings, new address, telephone, fax, and e-mail, and send to your Newsletter Editor for inclusion in the "Members on the Move" section in the next issue. Editor's address is on page 2 of the Newsletter.

Also, please inform the SIP Office (address on page 2) of your new address.

MEMBERS ON THE MOVE

Rosalind James, a Research Entomologist at the USDA-ARS Beneficial Insects Research Unit in Weslaco, Texas, has moved to the ARS Bee Biology and Systematics Lab in Logan, UT. In Weslaco she worked on developing microbial control strategies for various pests, including the silverleaf whitefly and varroa mite, using fungal agents. In Logan, she will be working on developing strategies for controlling chalkbrood diseases in non-Apis bees. Her new address is:

USDA, Agricultural Research Service
Bee Biology & Systematics Laboratory
5310 Old Main Hill
Utah State University
Logan, UT 84321-5310 USA
email: rjames@biology.usu.edu
phone: (435) 797-0530

Joel Siegel and Patrick Vail have moved to new facilities. The new address:

USDA/ARS
San Joaquin Valley Agricultural Sciences Center
9611 Southriverbend Avenue
Parlier, CA 93648

Joel:
phone: 559-596-3725
fax: 559-596-2721
email: jsiegel@fresno.ars.usda.gov

Pat:
phone: 559-596-2702
fax: 559-596-2721
email: pvail@fresno.ars.usda.gov

POSITIONS AVAILABLE

Tenure-track Asst. or Assoc. Prof. of Biology in the field of invertebrate zoology. The position entails teaching introductory biology, upper division and graduate (M.S.) courses in invertebrate zoology, and other subjects related to one's specialty. Tenure and promotion at GC&SU are based on effective teaching, scholarship in one's discipline, and university/community service. A Ph.D. in biology or zoology required. Appt. rank and salary commensurate with qualif. and experience. Applications will be reviewed beginning in November 2001 and will continue until the position is filled. The starting date is August 2002.

Application Procedure. Preliminary inquiries may be sent to the search committee chair at ksaladin@mail.gcsu.edu. Submit formal applications by mail. Send letter of application, curriculum vitae, copies of transcripts for all earned degrees (official transcripts will be required only of candidates selected for interviews), and the names, addresses, and telephone numbers of three references to:

Kenneth S. Saladin, Ph.D.

Invertebrate Zoology Search Committee

Dept. of Biological & Environmental Sciences, Box 81

Georgia College & State University

Milledgeville, GA 31061-0490

Postdoctoral Position, Insect Pathology. Grant & contract supported, full-time, Illinois Natural History Survey, Center for Economic Entomology; currently funded for 1 year; potential for a 1-2 year extension. Located on the campus of the University of Illinois, Urbana, Illinois.

Job Description: Plan and execute a program on host specificity and host suitability of pathogens, particularly nematodes, against the Asian longhorned beetle; analyze data and publish experimental results, maintain insect host colonies and pathogens.

Qualifications: Ph.D. degree in biological sciences by date of hire; experience with experimental methods using insect pathogens, particularly nematodes; strong understanding of biology/physiological ecology of host-pathogen systems; experience with insect pathogens/ nematodes required. Good interpersonal, written, verbal communication skills also required.

Salary: \$28,000- 30,000/yr

Benefits: Vacation, sick, and personal leave. State Universities Retirement System. State Health, Dental and Life Insurance

Available: After January 1, 2002

Application: Deadline November 30, 2001. Send cover letter, resume and names, addresses and telephone numbers of 3 references to:

Ms. Sue Key, Human Resources Manager
PRF #899,

Illinois Natural History Survey

607 E. Peabody Drive

Champaign, IL 61820

(217) 244-7790

Technical questions to: Dr. Leellen (Lee) Solter
(217) 244-5047; email: l-solter@uiuc.edu

Please visit the INHS website for full position description: <http://www.inhs.uiuc.edu/>

Postdoctoral Researcher to study pathology, identification and ecology of microsporidia for microbial control of red imported for ant. Expertise in molecular techniques will be useful. Travel within the state will be required. Duties will include experimental design, compilation and computer analysis of data, and preparation of manuscripts for refereed journals. Ph.D. preferred in insect pathology. Applicants with degrees in related disciplines will be considered depending upon previous experience. Must be an independent worker with ability to supervise student workers. Grant funded position with one year appointed with continuation depending on availability of funds. Salary to be commensurate with qualifications and experience. Benefits include retirement, university holidays, earned annual and sick leave, and optional group hospitalization and life insurance.

Contact information for applicants:

Dr. James R. Fuxa, Professor and Interim Head

Department of Entomology

Louisiana State University Agricultural Center

404 Life Sciences Building

Baton Rouge, LA 70803-1710

jfuxa@lsu.edu

Comments: The LSU Agricultural Center is an equal opportunity/affirmative action employer.

Postdoctoral fellow in molecular biology. Chesapeake PERL, a startup company in the University of Maryland Incubator Program, seeks

applicants for a full-time R&D position for a 2 year appointment. Chesapeake PERL produces valuable proteins in insect larvae with the aid of the BEV system. The successful candidate is expected to develop expression vectors tailored to the specific needs of different types of proteins, and a system for low-cost, high-throughput protein expression. In addition, the candidate must conduct experimental pilot production runs and aid in the development of protein purification protocols. Applicant must have a Ph.D. in Molecular Biology, Biochemistry, or related field, and substantial experience with the BEV system. Expertise in protein chemistry is highly desirable. Salary is \$32,000 p.a. and benefits package includes health care insurance.

Contact information for applicants: Send Application Letter and Curriculum Vitae to Chesapeake PERL, 387 Technology Drive, College Park, MD 20742. For more information, contact Dr. Nikolai van Beek at navanbeek@yahoo.com.

Senior Biological Scientist, The University of Florida, Entomology and Nematology Department. Competitive applicants will possess experience with insect viruses, DNA purification, restriction enzyme digestion, Southern, northern, and western blotting, and DNA sequence analysis. Experience with current bioinformatics tools, cell culture, SDS PAGE and agarose gels, laboratory supervision, and the ability to write clear and accurate research reports, is preferred. This position will supervise laboratory assistants and coordinate laboratory activities. Also, prepare materials, methods, and results including graphs and figures/tables for publication in appropriate journal format in consultation with the supervisor. Some respirator use required. Minimum qualifications include a Bachelor degree and three years of appropriate work experience. Interested applicants should apply at the Central Employment Center, 4th Floor Stadium West, Gainesville, FL 32611 by November 30, 2001. Refer to LP#91452F. You may download the USPS application @ www.ups.ufl.edu.

Contact information for applicants: Refer to LP#91452F. You may download the USPS application @ www.ups.ufl.edu. If an accommodation is needed to apply due to a disability, please call (352) 392-4621 or TDD (352) 392-7734.

Post-doctoral Research Associate. Funded by the Biotechnology and Biological Sciences Research Council (BBSRC) you will focus on re-targeting protein toxins using both rational design and hypermutagenic approaches. You should preferably have expertise in techniques of molecular biology and recombinant protein production such as site-directed mutagenesis, phage display, protein purification and characterization. This post is fixed-term for 3 years. Closing date for application: 12/21/01.

Salary: £17451 - £26229 per annum. Contact information for applicants:

Informal inquiries:

Dr. Colin Berry

Tel. +44 (0) 29 2087 4508

For an application pack:

Personnel Division

Tel. +44 (0) 29 2087 4017

Email: Persad1@Cardiff.ac.uk

Quote vacancy number 373.

POSITIONS WANTED

Postdoc or research associate: PhD (Sept., 2001) seeks Post doc or Research Associate position in the following areas: Microbial Control, Insect Pathology, Biological Control, Integrated Pest Management. PhD studies included evaluation on the pathogenicity of a microsporidian (*Nosema* sp.), insecticide bioassay, quantitative and qualitative assessment of carboxylesterases in different populations of *Spodoptera litura*. Experience: Junior Research Fellow & Senior Research Fellow studying "Gregarines as Biocontrol agent of Grasshoppers". Has thorough knowledge in identification (taxonomy), mass production, laboratory and field application of cephaline gregarines against grasshoppers. Languages spoken and written: English & Tamil. Countries preferred: Any. Please contact: **S. Johnny**, G.S. Gill Research Institute, Guru Nanak College, Chennai - 600 042, INDIA, Phone: (044) 244 0827, Telefax: 091-044-244 46 21 Email: johnny_shajahan@hotmail.com, grignc@giasmd01.vsnl.net.in

Doctoral Program sought. I completed a M.Sc. in Nematology in September 2000 from the University of Ghent, Belgium. I did my thesis on "Evaluation of Resistance of Potato Varieties to *Globodera pallida* and Influence of their Root Diffusate on Hatching". I would like to further my research work in the applied field of Nematology like identification of nematodes of local population, methods of management by sustainable agricultural practices, culture of nematodes, etc. I prefer to work on cyst nematodes (potato cyst nematodes and soybean cyst nematodes, entomopathogenic nematodes, and Meloidogyne species. I am very interested to earn my Ph.D in Nematology through working in above mentioned areas.

My contact address is below:

Sahira Shakya

P.O.Box-8975

EPC-1440

Kathmandu, Nepal.

E-mail: shakya_np@yahoo.com

Postdoc or Research Associate Position: Self-motivated, hard working PhD seeks postdoc or research associate position in the following areas: insect pathology, microbial control, biological control, molecular biology, integrated pest management, or agricultural entomology.

Graduated from the Department of Plant Protection of Zhejiang Agricultural University in 1984 and worked in the Institute of Biotechnology of the same university. Graduate School of the same university for master degree in physiological plant pathology and biotechnology in 1987. After completing my graduate study, I joined a research group at same Institute of this university and became skilled in molecular virology. In 1996, I focused my research to insect pathology and microbial control with specialty in Entomopathogenic fungi for my Ph.D. degree in Zhejiang University and rejoined a research group at the Institute of Microbiology of this university.

Strong background and research experience in insect pathology and microbial control. My Ph.D. dissertation was "Biological and Epizootiological Aspects on the Entomophthoralean Fungus, *Pandora delphacis*, as a Biological Control Agent Against Sucking Insects". I have participated in several

research projects such as "Microbial control and entomopathogenic fungi of homopteran insects". I investigated "Molecular mechanism of entomophthoralean protoplasts evading insect immune responses, and my current work is concentrated on immune interactions between entomophthoralean fungus and insect hosts, and pest control by using entomopathogenic fungi, such as *Beauveria bassiana*, *Paecilomyces fumosoroseus*, *Pandora delphacis* and *Pandora neoaphidis*. I have wide knowledge about mycology, molecular biology and genetic engineering, computerized data processing techniques, and electronic microscopy. I have good oral and written communication skills in English.

Contact information: Pleasure contact: **Xu Junhuan**, email address: Xujh@zjau.zju.edu.cn

Postdoc or Research Associate Position: Self-motivated, hard working Ph.D. seeks postdoc or research associate position in the following areas: insect pathology, microbial control, biological control, molecular biology, integrated pest management, forest entomology or agricultural entomology. Awarded a Ph.D. degree for the studies on the endophytic insecticidal bacteria in cotton. More specifically, this has included: study on the possibility of the general B.t. strains to enter cotton plants; study on the isolation of the endophytic B.t. in cotton plants; study on the construction of the cotton endophytic engineering bacteria which have the ability of insect resistant. By electroporation, the recombinated plasmid DNA carrying the B.t. endotoxin crystal gene has successfully transformed into an endophytic *B. cereus* from cotton.

Many courses taken in the areas of botany, pomiculture, entomology, microbiology, biochemistry, and molecular biology. Experiences in the management of orchard and farm, *Bacillus thuringiensis*, insect virus, experimental design, pathogen bioassay, field trials, insect rearing, viral mass production, RT-PCR technique, molecular biology operations.

Tonghai Zhao

E-mail address: zhaoth@prot.forestry.ac.cn

Future SIP Meetings

SIP 2002!!

Iguassu Falls, Brazil
August 18-23, 2002

SIP 2003

Burlington, Vermont; August

SIP 2004

Open

SIP 2005

Open, probably USA

SIP 2006

Open

Proposals for hosting future meetings are welcomed. Please contact Mark Goettel, Chair of the Meetings Committee. e-mail: goettel@em.agr.ca

Assessment of the Allergenic Potential of Genetically Modified Foods, December 10-12, 2001, Sheraton Hotel, Chapel Hill, NC

[RESCHEDULED: Originally scheduled for September 24-26, 2001.]

Organized by the National Institute of Environmental Health Sciences, National Toxicology Program, at Research Triangle Park, NC, this meeting will gather experts in food allergy, GM crops and the regulatory aspects of these products, along with bench scientists and clinicians, to examine the current state of knowledge in the area, identify the critical issues regarding these materials, and develop testing strategies to examine the allergenicity of these compounds. In addition to the speakers and invited participants, the public is invited to attend the workshop as observers. The number of observers will be limited only by the available space. An open discussion session is scheduled each day to provide an opportunity for observers to contribute to the scientific discussion.

The meeting is sponsored by: US Environmental Protection Agency; Department of Health and Human Services; National Institutes of Health; and the US Food and Drug Administration.

Contact:

Ms. Angie Sanders

Tel: 919-541-0530

Fax: 919-541-0295

Email: mailto:sanders5@niehs.nih.gov

<http://ntp-server.niehs.nih.gov/htdocs/Liason/GMFoodPg.html>

FUTURE MEETINGS AND WORKSHOPS

Entomological Society of America, Annual Meeting. December 9-12, San Diego California

2001: An Entomological Odyssey is the theme of this year's ESA meeting. Over 60 symposia will be presented, as well as posters and other presentations. For more information: Tel. (301) 731-4535, meet@entsoc.org, http://www.entsoc.org/annual_meeting.

The USDA Research Forum on Gypsy Moth and other Invasive Species, January 14-19, Annapolis, MD.

Contact Kathy McManus, U.S. Forest Service, 51 Millpond Rd., Hamden, CT 06514
Tel. (203) 230-4330, kmcmanus@fs.fed.us,
<http://www.fs.fed.us/ne/morgantown/4557/forum2002>

Plant, Animal and Microbe Genomes X Conference, January 12-16, 2002, San Diego, California

PAG X will bring together the leading genetic scientists and researchers involved in plant, animal and microbe research and related areas. With over 25 countries represented, the Plant, Animal and Microbe Genomes Conference provides an established forum for the exchange of information internationally as well as domestically. A partial list of general session topics includes:

-Technology

-Organization and Recombination
-QTL's, Mutants and Candidate Genes
-Comparative Genomics

New workshops have been added this year including Edible Legumes, Organellar genetics, Plant Alien Introgression, Plant Transgene Genetics, Grape Genome, Connectrons, and Plant Transformation. There will also be some 64 workshop and vendor presentations (an increase of about 10 from the last conference), as well as the usual computer program demonstrations.

Sponsors include: USDA; The Rockefeller Foundation; International Society for Plant Molecular Biology (ISPMB); Johns Innes Centre; The American Society for Horticultural Science; NCGR - National Center for Genome Resources; BIO - Biotechnology Industry Organization.

Contact for administrative questions:
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PUBLICATIONS

Reduced subscription rate to Biocontrol Science & Technology!!

We are pleased to announce that the Society has entered into an agreement with Taylor & Francis to offer members of SIP a privileged subscription rate to Biocontrol Science and Technology.

Such subscriptions are to be: 1) for the private use of the Society member 2) received at the member's private or home address 3) not placed in a library nor in any way used to substitute for an existing or potential (full) subscription.

For SIP members, the rate for 2002 is £88/\$US154, a 50% discount on the full personal subscription rate. Subscriptions and payments should be made directly with Taylor and Francis at:

Taylor & Francis Ltd, Customer Services
Department, Rankine Road,
Basingstoke, Hants RG24 8PR, UK.
Tel: 44(0) 1256 813002; fax 44 (0) 1256 330245

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Taylor & Francis Ltd, Customer Services, 325
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Tel: 1 800 354 1420; Fax: 1 215 625 8914.

EMAIL: journals.orders@tandf.co.uk
WWW: <http://www.tandf.co.uk>

Subscriptions are entered on an annual basis - January to December.

US Dollar rates apply to subscribers in all countries except the UK and Republic of Ireland where the sterling rate is applicable. Payment can be made by bank (wire) transfer, cheque, credit card (Mastercard, Eurocard, Visa or American Express), International Money Orders (UK), or National Giro (551 3057). All payments should be made to Taylor & Francis. Sterling cheques should be drawn on a UK Bank Account and US Dollar cheques should be drawn on US Bank Accounts.

"Fungi as Biocontrol Agents: Progress, Problems and Potential" Edited by T. Butt, C. Jackson, and N. Magan. 2001. 416 pp. Hardback. ISBN 0 85199 356 7. £75.00 (US\$140.00). CABI Publishing, CAB International, Wallingford Oxon, UK and NY, NY.

CABI Publishing announcement: 'There is increasing interest in the use of fungi for the control of pests, weeds and diseases. This book brings together perspectives from pathology, ecology, genetics, physiology, and production technology, to address the use of fungi as biological control agents.' Among the contributors to this text are SIP members Tariq Butt and Christopher Jackson, Editors, and Roy Bateman, Michael Bidochka, Hugh Evans, Mark Goettel, Ann Hajek, Doug Inglis, Mark Jackson, Judith Pell, Donald Steinkraus, Alain Vey, and Stephen Wraight.

More on Electronic Publishing

Denis Burges suggested that the following paper be published in the Newsletter. It was abstracted from the Proceedings of the Second ICSU-UNESCO

International Conference on Electronic Publishing in Science held in association with CODATA, IFLA and ICSTI at UNESCO House, Paris, 20-23 February 2001

Is Electronic Publishing Being Used in the Best Interests of Science? The Publisher's View.

I have been asked to answer the question: Is electronic publishing being used in the best interests of scientists? I am happy to do so and I would also use this opportunity to give a few personal observations on where the industry is going and where we should be going.

The answer to the question is: Not yet, but it will be. Electronic publishing is being used, but not to its fullest extent. It's the best thing that could happen to the scientific community. I think we have only seen the beginning, but electronic publishing will allow the literature to play a different role in the whole scientific research process. If we can develop a system where literature is available 24 hours a day, that should greatly enhance the role literature plays in the research process. That is the way we are going and that is the way our company is committed.

The issue "yes or no" for profit is not the big thing - it is about what kind of service we deliver to the end-user, to the customer. I am personally not ashamed of making a profit but I would be ashamed if people were to say "you are not delivering a good service to the community". To be fair, I do think there was a disconnection between the profits of some commercial publishers and the service delivered to the community. The main problem from the past, in my opinion, is not the high price of a single journal subscription. That is a symptom but not the basic problem.

The basic problem is - and it is also the reason why these single items were so high - that fewer and fewer people took a subscription to the journal, leaving the remaining customers to fund the whole bill. All journals start as small journals with thousands of subscribers. But with the explosion of scientific research, journals became bigger and bigger and the best journals became bigger more quickly than the poor journals. Prices went up. I'll leave aside whether the price should have gone up as much as they did, but with every price increase you lose a few people on the edge who are marginally interested. So we are now down to big libraries, normally very interested libraries, but there are only

a few of those in every field to fund the cost of the whole system and that leads to prices of thousands of dollars per journal.

I think that for too long commercial publishers have accepted that if fewer people pay but they pay more, the end result is the same. That is a false feeling of security because the main problem is that accessibility to literature becomes less and less, in general the role literature plays diminishes, the journal becomes less important, is seen less and cited less, and ultimately has to be closed down. To take the famous example of "Brain Research" which apparently costs \$15,000 per annum, there are only a few hundred big institutes paying. Beyond that there is a very inefficient system of inter-library loan, document delivery, legal and illegal photocopying, with thousands of people using it without paying anything. This is not a very acceptable situation and we should be correcting that. Electronic publishing broke through, and in my opinion will help us to solve all these problems in one go and do a lot more.

Electronic publishing does many things but first let me tell you what it doesn't do. It does not lower the total cost of the system - the infrastructure costs. The fact that articles need to be written, reviewed, typeset, archived, made accessible, open link, whatever - those costs will increase. But what it does do is dramatically lower the marginal costs of allowing access to, instead of 600 people, to 601 people. The extra cost is virtually nil and that means we should be more creative in the business model in the future. I understand there has been some debate about differential pricing. In my opinion that is the way to go and we have started with it already.

We find that more and more customers get together through consortia. The result normally is that the existing customers keep on paying roughly the same as they did in the paper environment, but in return they get both paper and electronic and quite often more access to more journals, only electronically. But they haven't lost out; they have gained more access. Typically, the consortium also has a few smaller players on board - small libraries that were previously very small customers to us or not customers at all - and they get the same access but at a lower price. Also in our company we had lengthy debates - and I know that within consortia there are quite often debates - as to whether it is fair that University X has access to, say, a thousand journals and pays half a million dollars, whereas another

university only pays \$100,000 for exactly the same access? In my opinion that is completely justified.

If, in the electronic environment, we could for instance lower the price for existing customers from \$15,000 to, say, \$10,000 and have hundreds of small departments paying \$1,000 each for unlimited access to Brain Research, I think we would all win. You pay depending on how useful the publication is for you - estimated by how often you use it. That is something very different from paying by the drink. We should have models where we make a deal with the university, the consortia or the whole country, where we say for this amount we will allow all your people to use our material, unlimited, 24 hours per day. The price then depends on a rough estimate of how useful that product is for you; and we can adjust it over time.

We want to distinguish between big universities vs. small universities, corporate vs. universities, and maybe rich countries vs. developing countries, as long as people pay something for it, because I don't believe in giving it away for free. There are costs involved in the system that I think are better done at a certain level, per university, per country, etc. We have a very efficient system, where everybody who is even vaguely interested in the material has unlimited use. What more is required? We need organizations to run such a system, which could be learned societies or groups of scientists or commercial publishers. It is up to us - the commercial publishers - to prove that we can provide a good service that justifies the price we want to charge in the future. And if we can't prove that, we will be out of business.

Although some people feel [publication] has become easier because of electronic publishing, it has in fact become more complicated and more capital-intensive. At Elsevier Science last year we invested \$30 million in electronic publishing activities. That is more than we invested between 1950 and 1980. This is not a time for amateurs to get involved, with all due respect. It takes people who are committed, who are well funded and are in it for the long term. It is not something that I find is done effectively by the scientists themselves. I understand their feelings that because of the high journal prices they wanted to have a go at the commercial publishers. If that is your sole motivation, I think that you are in for a shock because it is a lot of hard work and is that really what you want to do? If you want to be a

scientist, stay away from [publication] because you underestimate the amount of work, the funds and also the perseverance that is needed to make it work in the long term. It is up to us - the commercial publishers and learned societies - to prove that we can develop a service that is well run and delivers what it should be delivering. Then there is no need for these initiatives from the scientific community. It is ironic that the whole world is talking about outsourcing and the academic community would in-source a tedious job like publishing. It is much easier and more appropriate to leave it to people who do it full time.

So, where do we see it going? What we have done to date is to complete the migration from the paper journals to an electronic database [that] contains all our journals with all articles as of 1995. That is 1.2 million articles in the database, covering all 1,200 journals under the umbrella of Science Direct. Within five years we want to go back to Volume I, Issue 1 of all 1,200 journals. We want a seamless link with non-refereed material because those distinctions are becoming blurred. I would like to see a situation where, the moment you start writing an article you do it in such a format that it is constantly linked with the official and unofficial literature. So when you start writing your article, after a few sentences our product should direct towards an article that might be relevant. That is making more effective use of literature instead of first finishing your article and then going on your bike to the library.

The publisher should be doing that work and providing pointers to that material. So we see preprints and official journals merging into one journal and we also see the refereed material being completely merged with everything that is out there on the Web because everybody believes there is a future for refereed material but you shall not live by refereed material alone. Science Direct, in the new release that will be available in March, will allow a search through our own database of all refereed material, while at the same time searching for everything that is on the Web through a search engine we have developed that is specifically aimed for scientific purposes. It is up to you to then choose, but we do believe that it is important that we make a distinction between those two.

We are not trying to hide anything from the scientists. Let everybody have access to everything

as long as it is made clear what is refereed and what is not refereed. I think that if we achieve that, we should be able to enhance the role literature plays and that is the main goal. It could also include switching on your computer to find a message "You might like to know that last night you were cited in this paper". The first thing you do is click on that button and look for what paper cited you. It 's fun, it's pleasant, but at the same time you use literature more than you otherwise would have done because you look at the article and find it is interesting; so you look at a few references, and you click on one of these references, and before you know it, you are working with literature.

We believe that the future electronic world is bright. We want to be part of it and it is up to us to prove that we play a leading role. There is more choice for the community and that is good because a bit of competition keeps us on our toes. It is very, very important for you to understand that we are convinced that we can play a role but only in an open technology environment. We will make all our material linkable with anybody else who is there. We are not trying to corner the market and say: "We have a box that is only accessible to us". That is in nobody 's interest - not [ours] and not the end-user. I find it ironic that we are more liberal now as commercial publishers than some society publishers who seem to be defending not just the interests of their members but also their own interests.

There is a role for everybody, and there is much more to be done. Big investment is needed but there are also bigger rewards to be gained because of the extra use that will drive it. Prices are high per journal but the prices are not high for the whole system. Every university spends about only 1% of the total budget on all literature - not just ours - all literature, books and journals combined. But we also know that every library spends only a quarter of their budget on literature, and the rest is infrastructure. I am actually convinced that if we all deliver using the models that I have described, the infrastructure costs will come down dramatically. People have more access to our material and, therefore, less need for document delivery, which is sub-optimal. There is still more research, there are still more researchers every day. This is a very thriving business. The only thing that is not thriving is paper publishing but electronic publishing will [thrive].

Derk Haank, Chief Executive Officer, Elsevier

Science

Editor's note: It is hoped that in abstracting this paper, the essence of Mr. Haank's presentation has been captured. The entire presentation can be found on the web at: <http://associnst.ox.ac.uk/~icsuinfo/haankppr.htm> -L.S.

LETTERS TO THE EDITOR

Still Family

21 October, 2001

Some of you may remember my presidential address at Flagstaff, Arizona in 1991, in which I described SIP as a family. At our wonderful meeting this year in Amsterdam, I was once again reminded of how much like a family this organization really is. We have similar goals and interests, and yet they are diverse; we agree and disagree; we are sometimes involved with the topic of conversation, and sometimes bored; we laugh together and we argue; we eat together and we dance together; we rejoice in victories and are saddened and concerned with personal and professional problems of colleagues. Amsterdam was a perfect example of this - over 30 countries represented, many languages in the hallway, many races and nationalities all engaged in noisy conversation over coffee. What a great and unusual family!

And then, less than two weeks after we said goodbye to each other, September 11 happened. After reassuring myself that my own family and friends were safe, I immediately began to wonder about my other family, as I suspect many of you did as well. Soon, by e-mail and telephone, I learned of many very close calls among my friends and colleagues- a husband on the ferry coming into Manhattan; children working nearby the World Trade Center; colleagues stranded in foreign countries not knowing when they would be able to come home. And the sense of great relief that our meeting had not been scheduled a little later, but wondering whether any of us could possibly have been on one of those flights. As many of you have done as well, I began to be concerned also about colleagues who may feel direct or indirect abuse or other danger from these events. An innocent Sikh was murdered close to my home; my first thought was for our colleagues who are also vulnerable to such danger simply because of their country of origin or appearance.

When I speak with colleagues in other fields, I realize just how unique SIP really is. I can confidently say I have friends in over 50 countries, and nearly all are SIP members. At this troubled time, let us strengthen, not loosen, the connections among us. Let us defend and support our friends across the world. Because that is what a family does.

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Book Reviews for the SIP Newsletter

If you would like to have your book reviewed or if you would like to review a book, please contact our book review editor:

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BOOK REVIEWS

Bacillus thuringiensis: Biology, Ecology and Safety.

By Travis R. Glare and Maureen O'Callaghan.
John Wiley & Sons, Ltd. Chichester. 350 pp.
\$US130.

Bacillus thuringiensis: Biology, Ecology and Safety is essentially divided into two sections. The first section consists of 15 chapters and includes 14 tables. The chapters cover all aspects of *Bacillus thuringiensis* (Bt) including: nomenclature; characterization; natural occurrence; production and formulation; host spectrum; effects on nontarget microbes and invertebrates; effects on vertebrates; environmental persistence; insect and environmental factors affecting toxicity; transmission and dispersal;

effects in combination with other insecticidal agents; gene transfer; transgenic use; and resistance.

The second section, a 128 page long appendix, contains 8 tables. These tables include a list of the currently known insecticidal crystal protein genes, lists of susceptible and insensitive invertebrates including predators and parasitoids (separate tables), a table summarizing the susceptibility of insects to different Bt serovars and isolates (including LC₅₀ values), and the susceptibility spectrum for Dipel (*B. thuringiensis* serovar *kurstaki*). This book contains, undoubtedly, the single greatest collection of Bt references in a single volume (by my estimate over 2,000) and I laud the authors for their work in surveying the literature.

The chapters vary in length, and for the most part, each chapter is an excellent introduction to the literature associated with its topic. The chapters are well organized and concisely written, and contain a wealth of information that I feel will be invaluable both to readers approaching these topics for the first time as well as experienced researchers in the field.

The wealth of references should be very helpful for those teaching courses in insect control or insect pathology. There is some overlap between chapters, but that is to be expected given the volume of material covered. The drawback to this approach is that the authors rarely assess the significance of the literature cited in a particular chapter, but that is the price paid for this extensive survey. If the authors commented on every reference, the book would exceed 1,000 pages, and to be fair, the final chapter contains their conclusions on the safety and risks associated with the use of Bt.

The greatest coverage is devoted to the toxicity of Bt to insects, nontarget effects of Bt to microbes, invertebrates, and vertebrates. I would suspect that the bulk of the current literature falls into these broad categories as well. Due to my own bias, I paid particular attention to the chapter entitled "Effects on Vertebrates" and felt that it was a balanced presentation of the current controversies involving the taxonomic status of Bt, the production of *B. cereus* enterotoxins by Bt isolates in the laboratory, and the significance of mortality in mice following pulmonary exposure to extremely high doses of various Bt serovars. The authors also cover the available literature on human exposure following aerial application of Bt, and the references listed will

be valuable to those involved in public controversies involving this type of application. I would have been happier if the Canadian studies quantifying human exposure to Bt following aerial application had been referenced, but this does not detract from the strength of the chapter.

The shortest chapters are "Transmission and Dispersal," "Gene Transfer," and "Transgenic Use of Bt Toxin Genes." Despite their brevity they contain many references that will prove invaluable to the interested reader. The appendices seem structured to be of particular use to those involved with regulatory agencies or interested in potency differences between strains. The tables are easy to scan and the lists of susceptible and nonsusceptible insects are organized by Family. The appendix contains a list of the susceptibility of insects to Bt isolates from the USDA culture collection based on data from 23 cooperators, and according to the authors, these data were previously unpublished.

The back cover of the book lists an endorsement from Dr. H. D. Burges, who states that "it will be a major reference tome for many years to come." I agree with Dr. Burges and feel that in addition, this book is an incredible bargain. The authors are to be commended for both organizing this wealth of data and presenting it in a highly accessible format as well as keeping the price of the book reasonable.

Joel P. Siegel
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EDITOR'S NOTES

Elizabeth Davidson's letter (Letters to the Editor, this issue) is a moving affirmation of what makes SIP more than just another scientific society. By its nature a forum for us all, the Newsletter captures some of the special essence that makes our Society unique. Together, we celebrate the long and productive life of Victor Sprague, and mourn the unexpected and untimely death of Chris Lomer. We find a forum for our opinions, reminisce about past gatherings, make plans for our future, and look forward to the next 'family reunion'.

The participation of members in the Meetings and the collaborative spirit of SIP are reflected by an exceptional amount of member participation in putting together our Newsletter and making it a valuable resource for all members. We can't phrase it better than Elizabeth; after all, "that is what a family does".

Lee Solter & Mark Goettel

P.S. In addition to reports and information received for this Newsletter that are attributed to the contributors, we received many excellent photographs from the following members: Elizabeth Davidson, Peter Krell, Naomi Pye, Don Roberts, Just Vlak and Yu Ziniu. Look for more 2001 photos to be published in the coming issues.

Don't Forget to Pay Your Dues for 2002

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

Renewal Forms are included in this Newsletter.

PICTURES FROM THE 2001 SIP MEETING IN NOORWIJKERHOUT, THE NETHERLANDS



1. Joel Margalit (Israel) shows off his '*Bti* discovery' certificate, with Brian Federici (USA) and Jaroslav Weiser (2001 Founders Honoree, Czech Republic). 2. Paresh Shah (UK). 3. Jae-Mo Sung (Korea). 4. Bonifacio Magalhaes (Brasil), Just Vlak (The Netherlands), Flavio Moscardi (Brasil), James Harper (USA) and Marlinda de Souza (Brasil) plan for next year's meeting in Iguassu Falls.

PICTURES FROM THE 2001 SIP MEETING IN NOORWIJKERHOUT, THE NETHERLANDS



1. Susan Dimbi (Kenya) 2. Lerry Lacey & Mickey McGuire (USA) 3. Hail to the Chief! Jim Harper (SIP President) celebrates at the zoo. 4. Travis Glare and Trevor Jackson (New Zealand) (By the way, for those of you who are still confused, that's Travis on the left and Trevor on the right!!)