



NEWSLETTER

society for invertebrate pathology

VOLUME 35, NUMBER 3

November, 2002



VIII International Colloquium on Invertebrate Pathology and Microbial Control, 35th Annual Meeting of the Society for Invertebrate Pathology & VI International Conference on *Bacillus thuringiensis* (ICBt) in Fos do Iguassu, Brasil
Hosts over 350 participants!

The International Colloquium on Invertebrate Pathology, sponsored by the Society for Invertebrate Pathology, is held every fourth year in conjunction with the Society's annual meeting. This year's meeting also hosted the International Conference on *Bacillus thuringiensis* and was held in Fos do Iguassu, Brasil.

The scientific sessions encompassed a wide variety of topics, beginning with a Plenary Session on Baculoviruses and the presentation of the Founders' Lecture by Dr. Peter Luthy in honor of Dr. Huguette de Barjac. The Divisions on Viruses, Bacteria, Fungi, Microsporidia, Nematodes, and Microbial Control sponsored a variety of symposia, contributed paper sessions, and workshops, and held annual business meetings.

General Comments. The meetings ran smoothly taking into consideration the large scientific program, the social events, transportation, excursion, 5K race. The provision of a computer network with power point presentations sent online from a central location to the speaker rooms was very convenient, and a first for an SIP meeting.

TABLE OF CONTENTS

35 th Annual Meeting, Fos do Iguassu, Brasil.....	1
From the President	6
Minutes of the General Business Meeting.....	8
2002 Division Minutes.....	11
Annual Reports.....	19
Committee Reports.....	28
Obituaries	34
Members on the Move	34
Positions Available	35
Positions Wanted.....	36
Future Meetings and Workshops	37
Publications	38
Book Reviews	38
Editor's Note	42
Special Honor	43

Deadline for the next Newsletter is Feb. 1, 2003.

SIP Office

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

Society for Invertebrate Pathology
7413 Six Forks Road, #114
Raleigh, NC 27615
USA

Toll Free Tel: 1-888-486-1505
Toll Free Fax: 1-888-684-4682
Internet: sip@sipweb.org
Homepage: <http://www.sipweb.org>
Outside USA Tel and Fax: (919)-841-4133

Note: Toll Free numbers for Canada & USA only



Peter Luthy, Founders Lecturer 2002

All posters were displayed throughout the whole meeting, which allowed delegates to peruse the posters and take notes during periods not designated for the poster presentations. Since the SIP meetings usually attract between 300 and 400 participants, the same model could be adopted for future SIP events, provided that the event venue has sufficient space.

The high quality event venue, the Bourbon Hotel, facilitated all the logistics prepared by the Organizing Committee (OC) and PJ Eventos.

SIP NEWSLETTER

Published by
the Society for Invertebrate Pathology
(SIP Homepage: "<http://www.sipweb.org>")

Dr. Leellen (Lee) Solter
Newsletter Editor
Illinois Natural History Survey
182 Natural Resources Building
607 E. Peabody Drive
Champaign, IL 61820 USA
Tel: 217-244-5047 (or 5115); Fax: 217-333-6784
Internet: l-solter@uiuc.edu

Dr. Mark Goettel
Assistant Newsletter Editor
Lethbridge Research Centre
Agriculture & Agri-Food Canada
P.O. Box 3000, 5403 1st Avenue South
Lethbridge, AB, CANADA
Tel: 403-317-2264; Fax: 403-382-3156
Internet: goettel@em.agr.ca

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

Submissions to the following sections are solicited:

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

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

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

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

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

Deadline for the next Newsletter is February 1, 2003.

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.

Participants. The meeting hosted 352 participants from 29 countries. The participation of Latin Americans was very impressive and probably unprecedented in SIP meetings (109 participants = 31%), and practically all continents were represented, allowing a very rewarding interaction of Latin American researchers with those coming from North America, Europe, Middle East, Africa, Asia, and Australasian countries. The fact that many South Americans had, for the first time, the opportunity for sharing their research and interacting with researchers from other areas of the world, was very rewarding to the OC and SIP, indicating the need of considering future SIP meetings in this region. The number of participants from Brasil (68) and Argentina (11), although significant, could have been about 30-40 % higher, if these countries were not experiencing a serious financial crisis that restricted the participation of researchers and students from governmental institutions and universities.

Scientific and Social Program. The scientific program followed the format of most previous events of SIP. There were four plenary papers immediately following the opening ceremony, 112 contributed papers, 163 papers presented as posters, and 103 invited papers presented in symposia and workshops. The scientific program was very intense, but rewarding to those seeking advances in invertebrate pathology and microbial control. These intense activities were compensated by the social events that we were able to offer to the participants.

The Hotel Bourbon poolside was a nice environment to meet each other at the mixer on Sunday evening and eat good food, while having drinks and listening to live Brazilian and Latin American music. On Wednesday, participants were offered an excursion to the Iguassu Falls, followed by the 5K race and an evening of typical gaucho barbecue and music. To close the social events, we offered a banquet on Thursday night, with an assortment of different types of Brazilian music.

Final considerations. When we made the bid to SIP during the 1998 Sapporo meeting to bring the VII ICIPMC to Brasil, the members of the Local Organizing Committee were aware of the tremendous endeavor that we were undertaking, especially since no SIP meeting had previously been held in South America. All of us were committed to offer to the participants coming to Brasil an event of

the highest quality possible. At the end of the event and after four years of hard work, we had the perception that the event venue, the scientific program and social events met most of the expectations of the attendees.

We felt that we were able to host all the participants in a way that demonstrated Brazilian hospitality, and that provided a scientific and social program that the participants would never forget. We were very happy and honored to have been able to host the SIP 2002 in Brasil. The hard part of organizing the meeting was the ending. We interacted with the participants so intensely from Sunday (August 18) to Friday (August 23) that we did not notice time going by and wished that we could have continued for some extra days! It was such a good relationship that we will miss everybody for quite a long time.

Our most important Brazilian insect pathologist, and Co-Chair for SIP 2002, Dr. Sergio Batista Alves, could not be present at the event due to health reasons. Although Dr. Alves could not contribute fully to the organization of SIP 2002, he always was an inspiring person to the Organizing Committee and passed to us a very strong and positive energy. Therefore, the SIP 2002 is dedicated to Dr. Sergio Batista Alves for his invaluable contributions to insect pathology and microbial control in Brasil and other countries in Latin America. God bless you, Sergio!

The success of the meeting was due to the high-quality work of the many people involved, including the Scientific Program Chair, Bonifacio P. Magalhães, the subcommittee coordinators: Daniel R. Sosa-Gómez (Fungi), Olivia N. Arantes (Bacteria), Marlinda L. de Souza (Viruses), Marineide Aguilera and Elizabeth De Nardo (Nematodes), James Becnel (Microsporidia), and Pedro M.O.J. Neves (Microbial Control)], members of the subcommittees, PJ Eventos as the logistics and organization company, all the supporting personnel responsible for the speaker's support room, the staff responsible for the sessions (projections, posters, etc.), as well as the very well qualified personnel of Hotel Bourbon.

Thanks are also due to Helena Morioka and Daiana Bisognin, for acting as secretaries of the SIP 2002, and João Armelin Filho and Alfredo Carvalho as treasurers. Special thanks are due to Jim Harper and the members of the SIP Council for important input

related to the SIP organization and program. We also thank Ginger Carner and collaborators for taking care of the 5K race. Every person in charge tried their best to take care of every detail related to the event, to provide to the meeting participants the best we could offer. We were very lucky to count on such high-quality people to help in the meeting's organization.

We hope to see you all in Burlington, Vermont, for SIP 2003 that, certainly, will be another unforgettable SIP event.

Flavio Moscardi
and the Organizing Committee for the SIP 2002

Sponsors. The organizing committee of SIP2002 and the members of SIP and meeting participants are very grateful for financial and other support from institutions and corporate sponsors including the following: CNPq, Fundação Araucária, FINEP, Agraquest, Bayer CropScience, Becker Microbials, BioLogic Company, Certis, Dow AgroSciences, DuPont, Monsanto, Pioneer, Valent BioSciences, Pam Marrone, Sue MacIntosh, Terry Couch, Albert Pye, Mike Dimock, Tom Meade, Rejane Smith, Leigh English, Dan Moellenbeck, and Terry Benson. To all of these sponsors, a sincere thank you!

Student Awards. Students contributed excellent presentations at this year's meeting, as represented by the award winners listed below. The winning presentations were selected from 34 poster and 20 oral presentations.

Martignoni Student Travel Award

The Student Awards Committee received excellent applications for the second annual Mauro Martignoni Student Travel Award. The 2002 award went to Li Tan of Ohio State University, USA, for his presentation *Endotoxin activity of lipopolysaccharide produced by Moraxella osloensis against the grey garden slug Deroceras reticulatum*.

Li Tan obtained a B.S. degree in Microbiology from Shandong University in China, then joined the Shanghai Institute of Entomology, Academia Sinica to pursue his M.S. degree, which he completed in 1995. He was admitted to the Department of Entomology at The Ohio State University (OSU) for PhD studies in the Fall of 1998, and his research

project is titled "Virulence mechanism of the rhabditid nematode *Phasmarhabditis hermaphrodita*



Li Tan
Winner Martignoni Student Travel Award,
2002

and its associated bacterium *Moraxella osloensis* to the grey garden slug *Deroceras reticulatum*". He has published several papers related to his dissertation research and earned the prestigious Presidential Fellowship for 2002. Li Tan wishes to continue his work in the area of Invertebrate Pathology in his future career. Congratulations to a deserving award winner!

Poster Presentations

First Place: **James R. Steggles**. University of Cambridge, UK. *Identification and analysis of Bacillus thuringiensis virulence genes*.

Second Place: **Duncan Harvie**. University of Cambridge, UK. *Environmental stress and virulence in B. thuringiensis and B. cereus*.

Third Place: **Giorla C. Piubelli**. Universidade Federal de Paraná, Brasil. *Soybean extracts and their interactions with the nucleopolyhedrovirus of Anticarsia gemmatalis in AgMNPV susceptible and resistant populations of the insect*.

Oral Presentations

First Place: **Sinda Fedhila-Hamza**. Institut National de la Recherche Agronomique, France.

Identification of new Bacillus thuringiensis virulence factors by genetic approaches.

Second Place: **Gorben P. Pijlman**. Wageningen University, The Netherlands. *Deletion of the baculovirus non-hr origin of DNA replication prevents the accumulation of defective interfering particles.*

Third Place: **Elizabeth A. Herniou** Imperial College, UK. *Evolution of the Baculoviridae.*

Division Travel Awards

In addition to the above presentation awards, several Divisions also presented travel awards to students to attend the meeting and make presentations. The following students were the recipients of these awards:

Microbial Control Division (Two \$500 awards)

Tom Dubois, Cornell University

Todd Ugine, Cornell University

Microsporidia Division (One \$500 award)

Bryony Williams, Department of Zoology, The Natural History Museum, London



2002 Student Award Winners

Bacteria Division (One \$500 award)

Joel Griffiths, University of California in San Diego

Virus Division (One \$200 award)

Elisabeth Herniou, Department of Biological Sciences, Imperial College, London.

Thanks to all participants and also to the Martignoni and on-site presentation judging team: A. Bravo, J. Burand, M. Erlandson, J. Ferré, W. Gelernter, J. Ibarra, P. Krell, A. Koppenhöfer, A. Linde, J. Lord, N. Maniania, J. Maruniak, W. Moar, H. Roy, J. Schwartz P. Shah, L. Solter, P. Stock, J. Vandenberg, and S. Wraight



5K Race, Run and Walk

The race was held in the beautiful Parque Nacional do Iguacu, something very special, given that it's very unusual to obtain permission for an event of any kind to be held in the park.

There were 43 participants, competing as runners or as walkers, in three age categories: 29 and Under, 30 to 40 and 41 and over. Awards were given to the top three winners, male and female, in each age group. Also, the overall first male and first female winner in both the race and walk categories received awards.

After an afternoon of viewing the incredible Brazilian side of the Iguacu Falls, the runners were dropped off at the starting line, 5 kilometers from the gate into the park. The course was so lovely that the runners and walkers were able to ignore the hills and enjoy the race!

The awards were beautiful tocanos (toucans), carved from Pau Brasil, Brasil's National Tree, also known as Brasil Rosewood. The name Brasil (Brazil) comes from this wood -- the first settlers thought that the red color of the wood looked like the coals of a fire (a brazier), and named the county after this wood. The race results are:

Runners Category**Overall Winners**

Lorena Passarelli 25:17
Gerry Carner 20:31

Female, 29 and under

First: Ozlem Kalkar 31:12

Male, 29 and under

First: James Steggles 20:44
Second: Vitor Pinheir 25:48

Female, 30 to 40

First: Annette Jensen 27:24
Second: Charlotte Neilsen 27:51
Third: Bryony Bonning 27:52

Male, 30 to 40

First: Neil Crickmore 20:55
Second: Dietrich Stephan 22:34
Third: Gernot Hoch 22:44

Female, 41 and over

First: Lee Solter 29:11
Second: Ginger Carner 36:53
Third: Doreen Winstanley 43:06

Male, 41 and over

First: Michael Milgroon 23:07
Second: Parwinder Grewal 24:18
Third: Michael Brownbridge 24:35

Walkers Category**Overall Winners**

Lucy Anderson 40:25
Ted Andreadis 36:13

Female, 29 and under

First: Marielle Van Hulsten 51:28

Male, 29 and under

First: Gorben Pijlman 51:28

Female, 30 to 40

First: Madoka Nakai 44:30

Male, 30 to 40

First: Hugo Avends 51:28

Female, 41 and over

First: Mary Barbercheck 42:17
Second: Ann Hajek 42:18

Male, 41 and over

First: Raffi Aroian 39:57
Second: Roy Bateman 41:23

**FROM THE PRESIDENT
Harry Kaya, 2002-2004**



The 35th Annual Meeting of the Society for Invertebrate Pathology, the 6th International Conference of *Bacillus thuringiensis*, and the 8th International Colloquium on Invertebrate Pathology and Microbial Control held in Iguassu, Brasil were highly successful scientifically and socially. For the first time, SIP members were able to attend a meeting in South America and enjoy the friendly people, beautiful countryside, and wonderful food in the tri-country area of Brasil, Argentina, and Paraguay.

As always, the scientific program was diverse and excellent. The Divisions supported first-rate symposia and workshops, the contributed papers and poster sessions were exceptional, and student presentations were top notch. The oral sessions were well attended and the posters were up for the majority of the meeting and, by being located close to the refreshment area, became a focal point for continued scientific dialogue. I for one, and I am sure other scientists from other parts of the world, made a number of new contacts as well as renewing previous contacts with South and Central American scientists.

How about the social aspects of the meeting? It began with the Sunday night opening mixer with

abundant food by the side of the Hotel Bourbon swimming pool, a time to greet our colleagues and make new friends. The barbecue was exceptional with no lack of food, entertainment, music, and dancing.

The banquet had more wonderful food, followed by the awards ceremony for Founder's Lecture Honoree, Huguette de Barjac, and Founder's Lecturer, Peter Luthy. Student oral and poster presentation winners and student travel awards were also presented, as well as awards for the 5K runners. The banquet culminated with more music and dancing.

Who can forget the strolls in the beautiful tropical garden on the hotel grounds, thinking about how to present a talk, or how a poster will be received or planning the next experiment with a colleague?

Before the barbecue, we visited the Brazilian side of Iguassu Falls and saw the falls on a misty afternoon excursion. This was preceded by visiting the Bird Park and ended by watching and encouraging the runners to finish the 5 K run in Iguassu National Park. It was interesting to see the National Park police and an ambulance escort the runners to the finish line- rules of the Park.

Many members and guests took the exhilarating boat ride to the falls before or after the meeting and some visited the Argentine side of Iguassu Falls to see Devil's Throat, the thousands upon thousands of butterflies, and the wild toucans, lizards, and other wildlife and exotic plants in the tropical forests. For all this and more, we thank Flavio Moscardi and his Organizing Committee and Bonifácio Magalhães and the Scientific Program Committee for a memorable meeting.

2003 Meeting in Burlington, Vermont. We look forward to the 36th Annual Meeting of the SIP in Burlington, Vermont, which is in the capable hands of John Burand and his Organizing Committee. The meeting will be held slightly earlier than it has been for the past few years, so keep that in mind. It will be at the Radisson Hotel from July 26 to 31. The Division chairs will be contacting many of you to plan yet another outstanding scientific program for this meeting.

SIP Committees. I am appointing a special committee (Logo Committee) chaired by Ted

Andreadis to develop an official logo for the Society. Although there have been past attempts to have a logo for the Society, none has been adopted. Details for submitting a logo by any SIP member (except those on the committee) will be forthcoming. I have asked the Division chairs to select a member to serve on the Logo Committee. However, even if the members approve an official logo for the Society, each annual meeting will continue to have its own local logo.

In the near future, I will also appoint another special committee, a History Committee, that will be chaired by Elizabeth (Betty) Davidson to document the history of SIP. Who were the founding members? Where were past meetings held? When and how did the 5-K run start? These are a small sample of the kinds of questions the History Committee will address so that future members can be connected with the beginnings of the Society and its continuing evolution. By looking at the past, I expect that new visions for the Society will evolve.

Chairs for most standing committees will stay in place, however, there is a new chair for the Membership Committee. Jimmy Becnel, former chair of this committee will be an ex-officio member, and Roberto Pereira will be the new chair. I have expanded some of the committees to include more members. Please visit the SIP web site to see who are members on the committees. I thank all members who have rotated off their respective committees for your time, effort and service to the Society.

Student Awards. Since initiation by the Society of student awards for oral and poster presentations, the awardees have received cash prizes. This year, for the first time as far as I am aware, the Society also included a certificate along with the cash prizes. Certificates displaying the Iguassu logo were mailed to the student awardees in September. A certificate was also developed for the Mauro E. Martignoni Travel Award. We hope that a new tradition has been initiated where the students will receive both a cash prize and a certificate. I would like to point out that the Divisions also provide travel cash awards to students and the Bacteria Division was the first to give certificates to their student travel award winners. I hope that other Divisions will develop certificates to go along with their student travel awards.

Donations. I am pleased to report that the Martignoni family and the parents of Chris Lomer, Pam and Mick Lomer, made generous donations to the Society. Mrs. Marie Louise (Lu) made another contribution towards the Mauro E. Martignoni Travel Fund as well as a donation towards the development of a logo. The Travel Fund is awarded to an outstanding graduate student to help defray the travel cost to attend the meeting. Along with the donations, I received a wonderful letter from Lu who stated that Mauro always cared about graduate students and their welfare.

Pam and Mick Lomer donated to the Memorial Fund in the name of Chris, who passed away in October 2001, so that scientists from developing countries can attend SIP meetings. If anyone is interested in adding to either or both of these funds, there is a line on the membership form to do this, or checks may be sent to Suzanne Thiem, Treasurer, or Wendy Gelernter, Chair of the Endowment and Financial Support Committee,

Council Members. I express my sincere thanks to our outgoing officers, President Jim Harper, Past President Juerg Huber, Secretary Doreen Winstanley, Treasurer Mickey McGuire, and Trustees David Ellar and Leellen Solter. All did a great job in serving the Society during the past two years. In particular, Jim Harper had the difficult task of asking the Council to vote for a change in venue for the 2001 meeting necessitated by the problems in Israel, and Just Vlak and his colleagues, along with the Israeli scientists, organized a great meeting and program in The Netherlands. But Jim Harper will still have his hands full as I have asked him to draft some changes to the standing committees in the Constitution and By Laws that will require approval by the members.

Finally, I look forward to working with the new officers, Vice President Just Vlak, Past President Jim Harper, Secretary Ray Akhurst, Treasurer Suzanne Thiem, and Trustees Basil Arif, Alejandro Bravo, Trevor Jackson, and John Vandenberg. Peg Rotstein, our Executive Secretary, is also a key ex-officio member who tends to the day-to-day operation of the Society. If there are any issues that you as the member of the Society have, please feel free to contact any one of the Council members.

Harry Kaya

MINUTES OF THE GENERAL BUSINESS MEETING, AUGUST 22, 2002, FOS DO IGUASSU, BRASIL

The meeting was convened by the President of SIP Dr James Harper in the Bourbon Conference Centre, Bourbon Hotel, Iguassu Falls, Brasil, from 10:30 am to 12:10 pm. Approximately 80 members were present.

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

President James Harper reminded members that the Society for Invertebrate Pathology is 35 years old and said he has been honored to serve as its President for the last two years.

Members were informed about the restructuring of several Committees. The Endowment and Student Awards Committee will now be named the Awards and Student Contest Committee and the Endowment aspect will be transferred to the newly named SIP Endowment and Financial Support Committee, established by President Harper in 2000. The latter is currently a special committee and the President recommended that it become a standing committee, which will require a change in the Bylaws.

The second Mauro Martignoni Student Travel Award of \$500 was awarded this year, as well as funding from several Divisions for student travel. Even so, the number of excellent students applying for the grants far exceeded the numbers of awards available.

Jim thanked Flavio Moscardi, the Local Arrangements Chair, Bonifácio Magalhães, the Scientific program Chair, and the Local Committee members and the Scientific sub-Committees for organizing such a memorable 2002 SIP meeting at Iguassu Falls, Brasil. He acknowledged their efforts to ensure that we had a great personal and professional experience at the meetings in both a Colloquium year and *Bt* Conference year. He also expressed his appreciation of the hospitality shown by our Brazilian hosts at all levels and thanked PJ Eventos for their professional services, which ensured the smooth running of the SIP meeting in the excellent venue provided by the Hotel Bourbon. He gratefully acknowledged the support of corporate and government sponsors towards the meeting in Iguassu, Brasil.

He announced that a special award was presented to Johnny Briggs who was a founding member of SIP [June 2002 Newsletter 35 (2) p. 12-13].

President Harper announced that since the last SIP meeting in Noorwijkerhout, he had received information on the death of four members and former members of the Society. They are Victor Sprague, Chris Lomer, Donald McCleod, and Clyde Moore. He invited members to stand for a moment of silence to pay respect to these Members who contributed so much to our Society.

Finally he thanked the current officers of SIP, the Secretary Doreen Winstanley, the Treasurer Michael McGuire, the Vice-President Harry Kaya, Past President Juerg Huber, the Trustees Lee Solter, Basil Arif, David Ellar and Trevor Jackson, the Division Chairs, Committees, Harry Kaya, and all SIP members for their support during the year. He also gave special thanks the Executive Secretary Peg Rotstein and the Newsletter Editor Lee Solter for their support and hard work.

President Jim Harper presented the Executive Secretary's report for Peg Rotstein. Her duties are dealing with member's correspondence, printing the Newsletter, maintaining and upgrading the SIP database, and managing the bank accounts. Peg now uses a consultant in Florida to help her maintain and balance the SIP accounts. She reported that members are now able to see a whole listing of members on the website. It is proposed to have a member's only portion of the SIP website to include the membership list with a search capacity and the Newsletter. Non-members will be able to access meeting information. This will be on trial for one year. Peg encouraged members to notify her of any problems.

President James Harper presented the Treasurer's report on behalf of Michael McGuire, which is included in this Newsletter, as well as the Auditors' report on behalf of Wayne Brooks and Wes Watson. The auditors reported that the accounts of SIP were in good shape and, as a result, they did not recommend an increase in dues. 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.

The Secretary Doreen Winstanley thanked Peg Rotstein (Executive Secretary) and Lee Solter

(Newsletter Editor) for their efficient support that made her job as Secretary relatively easy. This year voting slips and envelopes, pre-addressed to SIP, for returning votes were sent electronically to most members. This method was cost efficient and successful and resulted in a voting rate similar to the previously used mailing system.

Mark Goettel presented the Meeting Committee report. A guide on meeting preparation has been prepared to help members involved in organizing future meetings. He thanked Just Vlak and the Program Chair for their organization of the 2001 Annual Meeting in the Netherlands. The 2003 meeting will be in Burlington, Vermont, USA but no written proposals have been received for 2004. There are two possibilities for 2005 received from the Mid-West and Canada. China has submitted a proposal for the International meeting in 2006. The Burlington (Vermont, USA) meeting in 2003 will follow a similar format to that used in the Netherlands, i.e. the meeting will start with a mixer on Saturday pm July 26th and finish Wednesday pm July 30th with the banquet.

John Burand (Chair of the Local Organizing Committee) presented a more detailed report on the progress of the SIP meeting to be held in Burlington, Vermont, July 25th -31st, 2003. This will be the second meeting to be held in Burlington, Vermont. He described Burlington, the largest city in Vermont with a population of 40,000 and its surroundings, mountains and summer resort atmosphere, as well as the convenient location of nearby airports.

Just Vlak presented the Noorwijkerhout Meeting report, which was a Binational Meeting. There was excellent collaboration between Israel and the Netherlands. There were 425 delegates, 340 papers and social events. There was a \$19,000 profit. The only real problem was with credit card companies. Just thanked members of the Society for their support, particularly President James Harper as well as Dick Peters for his valuable help at the desk.

Flavio Moscardi presented an update of the Iguassu Falls Meeting in Brasil. He said only 347 of the anticipated 400-500 participants had registered, with less than the anticipated number of members from Latin America. Unfortunately, due to currency problems, fewer Brazilian members were able to attend. The participants were from 29 countries including 100 participants from Latin America.

Flavio said it was an honor to have the SIP meeting in Brasil and that it had been a pleasure to work for the Organizing Committee to achieve the high quality program and facilities. He thanked members of SIP for their participation in the meeting and wished everyone a good trip back to their respective countries.

The Bacteria Division (Chair, Jean-Louis Schwartz), Microbial Control Division (Chair, Wendy Gelernter), Microsporidia Division (Chair, Ian Smith -given by incoming Chair John Burand), Fungi Division (Chair, Steve Wraight) and Nematode Division (Chair, Itamar Glazer – given by Patricia Stott) presented brief reports of their contribution to the scientific content of the Brasil meeting, their officers, membership, student awards, future initiatives and financial status. Detailed meetings minutes were published in the November 2001 Newsletter and 2002 minutes are published in this edition of the Newsletter.

Bacteria Division – Chair: Jean Louis Schwartz. There were four symposia and one workshop at this meeting. A Divisional meeting was held with 30 members present. One student award of \$500 was given for travel to the meeting. This award will continue at the same level for future meetings. One member-at-large was appointed, Colin Berry. Divisional dues are \$2 with a voluntary contribution of \$8. A few committees have been set up to make the Division more proactive e.g. a Symposium Planning Committee consisting of Alejandra Bravo, Brian Federici, and Trevor Jackson. They will start planning for the next three meetings. There will also be a Committee for Student Awards consisting of Jeroen Van Rie and Ray Akhurst. The aim of the Division is to increase the visibility of the whole Society and attract new members. They are looking at the possibility of renaming the *Bt* conference to broaden the spectrum of pathogens.

Microbial Control Division - Chair: Wendy Gelernter. The officers are Lawrence Lacey and past-Chair, and J. Lloyd –Chair-elect. There are 210 members of the Division. The Division sponsored two symposia and two workshops. Last year the slide sets were put onto a CD, retailing at \$30 per CD, and so far \$2,000 has been raised in CD sales. Two \$500 student awards were made at this meeting from nine submissions.

Microsporidia Division – Chair: Jimmy Becnel. One \$500 travel award was made this year to Bryony Williams from the UK. One combined Microsporidia/Fungus Symposium was organized for the Brasil meeting. The membership dues will be maintained at \$5. Workshop posters presented by several members on techniques for studying microsporidia will be placed on the Division website.

Virus Division – Chair: Ian Smith, incoming Chair John Burand. John Burand presented the report. One plenary and two symposia were presented. There were 75 contributed talks and posters at the meeting. Future symposia titles were discussed at the business meeting at which 45 members were present. The new slate of officers are Jim Maruniak, Chair Elect, Jim Slavicek, secretary/treasurer, and Kelly Hoover, member at large.

Fungi Division – Chair: Steve Wraight. There was a new slate of officers. Judy Pell is Chair-elect. There are 112 members representing a 5% decrease in membership. The Division presented three symposia, one workshop and one cross-Divisional symposium. One student award was made from the limited funds available.

Nematode Division – Chair: Itamar Glazer – presented by Patricia Stock. There were two symposia and one workshop at the meeting. One student travel award was presented. The membership dues were \$5 for regular members and \$2 for students. Subjects for symposia for next year were discussed at the business meeting as well as means of disseminating information, e.g. via a video or a manual of techniques.

Wendy Gelernter described the activities of the Financial Support Committee, the function of which is to raise money on behalf of SIP, principally from corporate donors, for the support of SIP meetings. She said that the collaboration with the SIP Committees and the Divisions was good.

Recently a memorial fund was established in memory of Chris Lomer. Information regarding the fund is available on the website. Brian Federici recommended that in future it may be preferable to establish a general memorial fund to recognize deceased members of SIP rather than individual funds in the name of each deceased member, since it would be easier to manage. Wendy Gelernter

recommended that a donation could still be made in memory of a specific member and this could be published in the Newsletter. Basil Arif, suggested that one possible use of the fund would be to bring members from developing countries to meetings. This is the current intent of the Lomer fund.

Incoming President Harry Kaya was invited to accept the SIP gavel from the outgoing President James Harper. He thanked Jim Harper for his last two years service to SIP through difficult times. He has invited new ideas from members via the Newsletter and is eager for junior and mid-level members to become more involved with the Society. He looks forward to working with the Divisions.

Wendy Gelernter proposed a motion to adjourn the meeting, which was seconded by Brian Federici and Bob Granados.

2002 DIVISION MINUTES

Bacteria Division

The annual business meeting of the Bacteria Division was held at the Bourbon Hotel, Foz do Iguaçu, Brasil, on August 19, 2002, 20:00- 22:00.

At the time of the meeting, the Bacteria Division had about 100 members (2002 calendar year). Thirty-one members attended the business meeting.

The meeting agenda was sent by e-mail to all the members of the Division on August 8th, 2002. Copies of the agenda, the 2001 business meeting report, the preliminary 2001-2002 report and a financial report for the May 2001- April 2002 fiscal year were distributed to the participants.

In 2001-2002 the officers of the Bacteria Division are: Chair: Jean-Louis Schwartz (Université de Montréal, Biotechnology Research Institute and Biocontrol Network, Montreal, Canada); Chair-Elect: Juan Ferré (University of Valencia, Spain); Secretary/Treasurer: Christina Nielsen-LeRoux (Institut Pasteur & INRA, France); Members-at-large: Roger Frutos (second year, CIRAD, France) and Didier Lereclus (Institut Pasteur & INRA, France).

Jean-Louis Schwartz chaired the meeting and Christina Nielsen-LeRoux acted as the meeting secretary.

Approvals: The 2000-2001 annual report, prepared by past Chair Alejandra Bravo (UNAM, Mexico) was unanimously approved, as were the 2001-2002 preliminary report and the 2002 business meeting agenda.

2002 Bacteria Division student travel award: Following a general e-mail consultation of the Division's members, which provided a very positive response, a \$500 student travel award competition was organized for the 2002 SIP meeting using the general criteria set forth by the Society for the Martignoni award. With the efficient help of Peg Rotstein from the SIP headquarters and the 2002 SIP meeting organizing committee in Brasil, an announcement was posted on both the SIP and the conference web sites. Six applications were received and evaluated by the Division's executive committee, including two candidates who applied to the Martignoni fund award but did not succeed. Joel Griffiths, University of California in San Diego, was selected. He was officially given the award at the SIP 2002 banquet ceremony in Foz do Iguaçu.

Elections and committees: One member-at-large, Roger Frutos completed his term in August 2002. Four candidates were nominated for his position and Colin Berry (Cardiff U, UK) was elected for the 2002-2004 term.

SIP Student Award Committee: Margaret Wirth (UC Riverside, USA) will represent the Bacteria Division.

SIP Fund Raising Financial Committee: Jeroen Van Rie (Bayer CropScience, Belgium) will represent the Bacteria Division.

Bacteria Division Student Travel Award Committee: Raffi Aroian (UC San Diego, USA), Jeroen Van Rie and Ray Akhurst (CSIRO, Australia) will form the committee.

Bacteria Division Symposia Committee: The members will be Alejandra Bravo, Brian Federici (UC Riverside, USA) and Trevor Jackson (AgResearch, New Zealand). This committee will work in close collaboration with the Division's members to set up several attractive symposia to which important players from the insect bacteria research community and people with other scientific backgrounds could be invited. Bacterial topics shall be made more prominent at the next meetings, particularly in the *Bt* area. It was also suggested that the name of the VIIth International Conference on *B. thuringiensis* to be held in 2004 should be changed

to VIIth International Conference on Insecticidal Bacteria, so that other bacterial species may be included.

Bacteria Division Web Site Committee: A general call was made before the meeting to the members of the Division for ideas and material to enrich the Bacteria Division page hosted by the SIP web site. Several members provided very interesting suggestions and superb pictures. During the meeting it was agreed that the Bacteria Division should be more visible and attractive to bring more members to the Society and to the meetings. The web page may be very useful for this purpose. It was suggested to provide links to the Division's members. The Division's Chair will set up a committee before the end of the year to work on the web page project. In the meantime, volunteers and suggestions are welcome (*send to:*

jean-louis.schwartz@umontreal.ca).

2002 Symposia and Workshop: At its 2001 annual business meeting in Holland, the Bacteria Division proposed to organize for the 2002 SIP meeting four symposia (one being organized with the Division of Nematodes) and one workshop. The organization was greatly facilitated thanks to the efficient help of Olivia Arantes (U Londrina, Brasil), coordinator of the Bacteria subcommittee of the Brazilian 2002 SIP scientific program organizing committee. The following events were organized:

- Symposium I: *Bacteria/Insect interactions: virulence aspects* (Convenor: Didier Lereclus)
- Symposium II: *Bacterial insecticidal proteins: specificity, improvement and novel toxins* (Convenor: Jim Baum, Monsanto, USA)
- Symposium III: *Bti and BspH mosquitocidal strains: use, resistance and necessities* (Convenor: Christina Nielsen-LeRoux)
- Symposium IV: *Bt transgenic plants and insect resistance to Bt toxins* (Convenors: Juan Ferré and Jeroen Van Rie)
- Workshop: *Ethics, legal and regulatory concerns of transgenic plants* (Convenors: William Moar Auburn U, USA and J. L. Schwartz).

Future symposia and workshops: At the 2001 Bacteria Division business meeting, the following symposia were proposed for the 2003 SIP:

- *Genomics of entomopathogenic bacteria*
- *Bacterial symbiosis.*

Additional proposals for future symposia were made at the present meeting, which are listed below (no priority order):

- *Second generation transgenic crops* (S. Gill, UC Riverside, USA)
- *Non target effect of Cry toxins in sprays and transgenic plants* (B. Federici)
- *Bacterial ecology, distribution and interaction with the environment* (T. Jackson)
- *Insecticidal bacteria in human health: vaccine enhancers and tumor killers* (J. L. Schwartz)
- *Infection physiology of pathogen insect interactions* (A. Bravo)
- *Synergism between insecticidal active factors* (M. Wirth)
- *Interaction and exchanges between bacteria: chromosomes and plasmids* (D. Ellar, U. Cambridge, UK)
- *Mode of action of insecticidal toxins* (M. Soberón, UNAM, Mexico)
- *Various mechanisms of resistance to larvicidal bacterial toxins* (J. Ferré and C. Nielsen-LeRoux)
- *Insect pathogen co-evolution: adaptation and resistance* (C. Nielsen-LeRoux)
- *Health issues related to non-specific virulence factors of bacterial insecticides* (K. Van Frankenhuyzen, Canadian Forest Service, Canada).

Two workshop topics were also suggested:

- *Product potency evaluation: need for standards* (P. Vilarinhos, SGAN, Brasil and D. Burges, Goring-by-Sea, UK)
- *F.A.O. and W.H.O.: project support and vision related to application in endemic countries* (J. L. Schwartz and P. Vilarinhos).

A priority list will be established by the Bacteria Division Symposium committee based on published work and recent advances in the areas of interest.

Society's support to invited speakers or to programs: The Society will continue to provide \$1,000/year to each Division to support symposium and workshop speakers who would not normally come to SIP meetings. The SIP Council, at its last meeting, decided that these funds could also be used

to support divisional programs. Furthermore, it decided that unused funds could be rolled over for a second year and that a \$3000 discretionary fund will be made available to the Society's president to deal with special cases.

Finances: The following financial data, as of July 31, 2002, was diligently made available to the Division's Chair by Peg Rotstein before the meeting:

Financial report for fiscal year 2002 (May 1, 2001 – April 31, 2002)

Revenue

Membership dues (118 members @ \$2)	\$ 236.00
Speaker contribution	\$1,000.00
Total revenue	\$1,236.00

Expense

Meeting speakers	\$1,000.00
Total expense	\$1,000.00
Net revenue	\$ 236.00

Comparative statement of fund balance

<u>4/30/2001 Fund balance</u>	<u>4/30/2002 Fund balance</u>
\$1,030.00	\$1,266.00

As of August 8, 2002, the following funds were committed for the next financial period: \$1000 for symposium and workshop invited speakers, \$500 for the Division's Student travel award and \$150 for the organization of the 2002 business meeting. Expected revenue for the next financial year is: \$1000 from the SIP contribution to speakers and \$200 from the Bacteria Division membership fees. Therefore, the funds available after the SIP 2002 meeting should be around \$700-750.

Membership fee increase: Following the approval in principle of divisional fee increase by the SIP Council at its meeting on Sunday, Aug. 18, 2002, it was decided to increase the Division's membership fees to be able to support one or two students in the future through the Bacteria Division student travel award. Therefore, while the membership fee remains at \$2, members will be asked to contribute to the Student travel fund, on a voluntary basis, with an additional \$8 fee. This new fee structure will be clearly advertised by the Society on its web site and on the membership registration form.

Other sources of funding: While direct fund raising activities are possible within the Division, they

should be coordinated with the Endowment and Financial Support Committee of the Society. It was also suggested that the Society be asked to provide a more substantial funding (in the 10,000 to \$15,000 range) to the Divisions to significantly increase their much needed capacity to support invited speakers and students at a decent level.

The meeting was adjourned at 2200h.

Christina Nielsen-LeRoux
Jean-Louis Schwartz

Fungus Division

Chair: Stephen Wraight (present)
Chair Elect: Judith Pell (present)
Secretary/Treasurer: Michael Brownbridge (present)
Member at large: Richard Humber (present)
Member at large: Paresh Shah (present)

Chair, Stephen Wraight called the meeting to order at 8.10 pm with an introduction and welcome. The current membership for calendar year 2002 is 111, a slight decrease from 121 last year.

The Annual Meeting Program Committee approved three fungal symposia and one workshop for the 2002 meeting:

Symposium 1. *Toward Integration of Fungal Entomopathogens with Other Biological Control Agents.* Convenor Steve Wraight
Symposium 2. *Microecology of Entomopathogenic Fungi.* Convenor Marcos de Faria
Symposium 3. *Genetic Structure of Fungal Populations.* Convenor Daniel Sosa Gomez
Workshop. *Preservation of Entomopathogenic Fungi.* Convenor Richard Humber

The Division congratulated two mycopathologists who were awarded SIP Student Travel Awards to attend the meeting in Brasil, Todd Ugine and Thomas Dubois.

Minutes from the 2001 Meeting. Michael Brownbridge proposed that the minutes taken during the 2001 Business Meeting be accepted without being read to those present (the minutes were circulated to all members of the Fungus Division

earlier in the year via e-mail). The proposal was seconded by Mark Goettel. The decision to accept the proposal was unanimous.

Financial Report. Finances for FY 2002 (May 1, 2001 – April 31, 2002): A summary report of the Division's financial standing was given by the Treasurer. The ending balance for the Fungus Division account was \$634.00. A sum of \$1000 was again granted from the SIP general fund to support symposium speakers. Half of this amount (\$500) was committed to support travel of two non-SIP-members invited to speak in a cross-division symposium entitled "Microsporidia within Entomophthorales" organized by Jimmy Becnel and Rich Humber. The remaining \$500 was returned to the Society's General Fund. All of the money in the Division account was derived through membership dues. Motion to accept the report as presented was made by Michael Brownbridge and seconded by John Vandenberg. The motion was approved.

Election of Officers. From her current position as Chair-elect, Judith Pell automatically becomes Chair for the next two years. Richard Humber remains for one more year as Member at Large. New officers were required to fill the following positions: Chair Elect, Secretary/Treasurer, and Member at Large (1). The following members were elected to office:

Chair Elect:	Jørgen Eilenberg
Secretary/Treasurer:	Helen Roy
Member at large:	Pedro Naves

Results of SIP Council Meetings. Previously, the SIP Governing Council provided each Division with \$1000 to support program development, workshops, and attendance of symposium speakers at the Annual Meetings. Funds were previously intended/restricted to support attendance of non-members of the Society. This has been amended so that funds can now be used to support members who would otherwise not attend, providing more flexibility to support whoever is deemed appropriate by the Program Committee members. For example, funds could be used to encourage student participation at meetings, as long as the presentation is seen as enhancing the overall meeting program. However, awarding a student prize would not have priority over bringing in an external speaker. Also of note, is a change in the bylaws that now allows any unused funds to be carried over one year, remaining in the Division's account rather than

being returned to the Society's General Fund.

Symposia. It was proposed that symposia for the 2003 meeting should be planned much earlier than was the case for the 2002 meeting. This would allow more time to identify symposium speakers, including non-members. Furthermore, if no external speakers participated in the symposia, it would give enough time for a student award to be made.

Also discussed, was the desired participation of scientists from the meeting locale. When planning symposia, potential participation of such people should be considered and encouraged.

John Vandenberg then moved that the Division use the \$1,000 to establish a \$500 student travel award, with the remaining \$500 to be used to support participation of a non-member speaker to enhance fungal symposia. The motion was seconded by Mark Goettel. Two amendments to the motion were then proposed. Mark Goettel proposed (seconded by Michael Brownbridge) that the awards be made as long as the \$1,000 contribution to the Division is made from the General Council. The second amendment to the motion was to remove the restriction on the second \$500 award such that it could also be used to support a second student award, or participation of a member who would otherwise not be able to attend the meeting. Both amendments were approved; the amended motion was then approved.

In the deliberations that followed, the status of other Divisional funds was discussed. Could these be used, if necessary, at the discretion of the Executive Council? In an open vote, it was decided that this could be done without approval of the whole membership.

Status of the Division's Website. While the website still remains to be developed, access to the material that will be posted on the site was discussed. Should material be made available to anyone free of charge, or should the material be accessible by membership only, under password protection? Currently, all information on the SIP website is freely available, e.g., the Newsletter, minutes of Division meetings, etc. The general consensus was that the basic material should be available for free.

However, the priority should be to establish a webpage and develop some content, e.g., minutes of

the annual meeting of the Fungus Division, abstracts from the current SIP meeting, member information, links to member's websites, etc. The mechanism(s) for achieving this goal and division of responsibilities are not yet established. Should it be the responsibility of the secretary, for example, to collate the information and submit this to Peg Rotstein for publication on the website?

There was general agreement that a serious attempt be made by the membership, under the guidance/administration of the elected Officers, to establish a limited webpage which can be developed further as time and resources allow. The webpage content should include: 1. A statement of the objectives of the Fungus Division, with an explanation of what it aims to provide to members; 2. Abstracts from presentations given by members at the most recent SIP meeting; 3. Links to members websites (members of the Division need to approve and provide this information).

Dues and Fund Raisings. The membership fee for the Division currently stands at US\$2. It was proposed that dues be increased to \$5 with a student membership rate of \$1. However, there were concerns that this might put membership beyond the financial reach of many individuals, particularly in developing countries. As an alternative, it was proposed that industry be approached to provide contributions to support the membership and activities of the Division, e.g., to support an endowed student travel award, eliminating the need for an increase in dues. This motion was carried.

It was suggested that the new Chair and Secretary approach industry for provision of funds to support an endowed travel award. Formation of an ad-hoc committee was recommended to develop such a program further, and determine whether the award should be restricted to support students from, for example, the Asia/Pacific region, which would be consistent with the source of the funds.

The CD version of the popular Slide Atlas is now available and includes several images of fungi and examples of their use in microbial control. Paresh Shah is coordinating collection of additional material emphasizing the role and use of fungi in control programs, and will continue development of this collection.

Other Business. A communication was received from Ray St. Leger, requesting support from the Fungus Division in the nomination of fungal candidates for whole genomic sequencing. In collaboration with labs performing fungal genetic work, Ray is proposing to seek funds to sequence the entire genome of the selected strains. Support of the Division and its members is needed to provide a list of candidate strains for sequencing and a justification as to why such work is important and necessary. This would allow development of a white paper that would be submitted to solicit Congressional funds for the research. The greater the support shown by the Division for this type of work, the stronger the case for funds to support the study, which would be done using facilities and equipment of the National Human Genome Research Institute. In a vote, the proposal was unanimously endorsed; a sub-committee of interested collaborators will be established to develop the concept further (John Vandenberg and Rich Humber will be involved in this initiative).

Motion to adjourn the meeting: Paresh Shah
Seconded: Jeff Lord. Unanimous approval.

Respectfully submitted,
Michael Brownbridge, Secretary, Fungus Division.

Microbial Control Division Report

Financial Report: The Treasury is in good shape, with a net revenue of \$1,843.27 (see below). However, the majority of revenue is from sales of the Slide Atlas CD. Membership dues account for only \$500 of the Division's income. Since we hope to continue to provide student travel awards totaling at least \$1,000 each year, we must make continuing efforts towards bringing money into the Treasury. Possibilities include a drive to increase membership, an increase in membership dues, production and sales of other materials. This issue will be discussed further at the 2002 business meeting.

Current membership (as of July, 2002) is 210, compared to 250 at this time last year, and 275 in 2000. Reasons for the declining membership numbers will be discussed at the business meeting.

Financial Report for Fiscal Year 2002 (May 1, 2001 – April 31, 2002)

REVENUE	
Membership Dues	\$ 500.00
Speaker Contrib. From SIP	\$1,000.00
Short Course at Annual Meeting	\$1,800.00
Slide Atlas CDs	\$2,160.00
Accrued interest receivable	\$ 244.64
Total Revenue	\$5,704.64
EXPENSE	
Student Travel Awards	\$1,000.00
Short Course Manuals	\$1,755.59
Slide Atlas CD Costs	\$ 605.78
Unused Speaker Fund*	\$ 500.00
Total Expense	\$3,861.37
Net Revenue	\$1,843.27

Investments: Comparative Statement of Fund Balance

4/30/2001	4/30/2002
Fund Balance	Fund Balance
\$6,116.00	\$7,959.27

At the beginning of the fiscal year (May 1, 2001) MCD invested in a \$6119 Certificate of Deposit as a part of a larger \$19,000 CD held by the SIP general fund at 6.32% interest.

This CD matured on November 15, 2001 and the \$6535.77 was reinvested in a one year CD as a part of a larger \$44,000 CD with an interest rate of 2.7% maturing on 4/10/2003.

Slide Atlas CD: The 1992 Microbial Control Slide Set was made available in CD form and sales were initiated at the 2001 meetings, where a special price of \$30 was charged. Thereafter, the CDs were available for sale via the SIP website for \$35. Total production costs for the CDs came to \$606, and sales to date have come to \$2,160, for a healthy profit of \$1,554 so far. This fund-raising effort will help to subsidize the student travel awards that the Division presents each year.

Student Awards: The Microbial Control Division announced two US\$500 travel awards for students with financial difficulty to allow them to attend the

SIP meeting in Brasil this year. Students from any country could apply by providing the required information by regular mail or email. Award recipients were not required to be members of the Microbial Control Division. We received nine applications from students, all of very high caliber. Of these Tom DuBois, Cornell University, and Todd Ugine, also of Cornell, received the award.

Workshops: Two workshops were planned for the 2002 meetings. Jeff Lord and Trevor Jackson co-organized "Bioinsecticide Production Issues, with a Focus on Latin America" (morning of Wednesday, Aug. 21), with speakers from China, Peru, Colombia, Brasil and the U.K., and dealing with the economics and technical issues of microbial control production systems for forestry, vegetables and coffee. Pedro Neves organized "Microbial Control of the Coffee Berry Borer by Entomopathogenic Fungi" (afternoon of Thursday, Aug. 22), with speakers from Nicaragua, Brasil and India comparing their experiences with this pest.

Symposia: Two symposia are planned for the 2002 meetings. Lerry Lacey organized the symposium *Microbial Control of Insect Pests of Potato — from Tierra del Fuego to the Great White North* (Thursday afternoon, Aug. 23). Topics will cover a wide range of potato pest insects in South and North America and include the use of virus, bacteria, fungi and the integrated use of microbial control agents and insect natural enemies of potato pests. Program enhancement funds (roughly \$300) will be used to defray the cost of registration for one non-member presenter. A second symposium, organized by Don Roberts and David Moore, *Solar Irradiation of Fungal Pathogens: Deleterious Effects, and Mitigation through Genetics and Formulation*, is scheduled for Thursday morning (Aug. 23) and will deal with technology used to assess solar irradiation and the damage it causes, as well as advances in formulation science that attempt to mitigate solar damage.

Elections: At the 2001 meeting, Wendy Gelernter assumed the Chair of the Division, and three new officers were elected: Jeff Lord (Chair-elect), Maureen O'Callahan (Secretary/Treasurer) and Chris Lomer (Member-at-Large). With the untimely death of Chris Lomer late in 2001, his position was filled by Yasuhisa Kunimi. Lerry Lacey, Past Chair, and Stefan Jaronski, Member-at-Large, make up the remaining MCD officers for the 2001/2002 year. At

the 2002 meetings, the membership will elect a new Member-at-Large to replace Stefan Jaronski, whose term expires in August, 2002.

Respectfully submitted,

Wendy Gelernter, Chair
August 4, 2002

Microsporidia Division

The annual business meeting of the Division of Microsporidia was held at 8pm on August 19, 2002. Ten members were present.

Old Business. The minutes of the 2001 business meeting that were published in the SIP Newsletter 34(3) in November 2001 were unanimously accepted.

The Division Chair, James Becnel, reported on the financial and membership situation of the Division. The balance is US\$1,953. The Division has currently 51 members.

New Business. James Becnel reported from the SIP Council meeting that the Division will receive US\$1,000 for student travel awards and programming. The money can be used to support non-members as well as members of the SIP; if the amount is not used entirely it can be carried over into the next year. The SIP Council approved the increase of the Division's annual membership dues to US\$5. Therefore, this dues increase, which was proposed in the Division Business Meeting 2001 will go into effect. Becnel further reminded the members that any industry support for future activities must be coordinated with the fund-raising committee of the SIP.

Bryony Williams receives this year's Microsporidia Division student travel award of US\$500 for her paper *A remnant mitochondrion in the microsporidian Trachipleistophora hominis*. Robert Hirt and Patrick Keeling were supported to speak in the Cross-Division Symposium "Microsporidia within Entomophthorales". Each speaker received \$500.00 from the Microsporidia Division and \$250.00 from the Fungal Division.

Election of new officers. The Division's nominating committee proposed the following candidates: Rudolf Wegensteiner, present Vice Chair, for Chair, Gernot Hoch for Vice Chair, Leah Bauer for

Secretary/Treasurer, Joel Siegel (1 year) and Michael Henn (2 year) for Trustees. All candidates were unanimously elected.

Theodore Andreadis agreed to assist the organizing committee of next year's SIP meeting with programming concerning microsporidia. Andreadis further suggested having next year's workshop on molecular phylogeny of microsporidia. The members agreed to present the material prepared for the 2002 Workshop, "Techniques in Microsporidia Research" on the Division's Internet page.

The business meeting was closed at 8:30pm.

Gernot Hoch, Secretary

Nematode Division

Because the chair of the Division, Itamar Glazer, was not able to attend the SIP meeting, he appointed Patricia Stock to chair the meeting. The meeting was called to order by Patricia Stock at 20:10. 21 people were present.

Webpage. The present status of the Nematode Division's web page is similar to that of other Divisions, i.e., list of officers, minutes. Parwinder Grewal suggested a list of items to add, which was discussed. It was agreed that the following items should be present on the web page: 1. List of officers, 2. Minutes of last Division meeting, 3. Announcements, 4. Student Travel Award guidelines, 5. Introduction to the biology of nematodes and symbiotic bacteria (comments: Do not restrict to entomopathogenic nematodes but clarify that other insect nematodes are also of interest), 6. Selected publications and/or poster presentations (comments: check with Peg Rotstein if there is enough space for poster presentations etc.), 7. Pictures from recent meetings, 8. Links to other websites (in part already there) and to, e.g., faculty profiles on their department/university webpages.

Student travel award: The Division is given \$1,000 per year from the society. Members-at-large could serve as judges for awards. Student awards should be in the range of \$250-500 but the amount should be kept flexible so that different numbers of students and needs can be accommodated. Award should be based not only on financial need but also on merit. Selected students would be required to

give an oral or poster presentation. Any unused money could be used to invite non-member speakers. Grewal and Stock will work out guidelines, than members can provide input via email before the guidelines are placed on the division webpage.

Symposia for 2003: It was agreed that there should be a workshop on 'Molecular approaches to Diagnostics'. Several symposium titles were proposed and discussed but none was definitely accepted. More input should be sought through email from other members. Discussed titles included: a. *Behavior of pathogen-infected insects* (cross division symposium), b. *Production*, c. *Invasion biology of insects pathogens* (cross-division symposium).

Mobile EPN workshop. Grewal and Stock proposed the development of a mobile EPN workshop that could be conducted in conjunction with the SIP meeting. But it was found that conducting it during the meeting would conflict with the other sessions and appending it to the meeting (i.e., Friday pm or Saturday) would be not very feasible because of time and financial restraints.

Video. Grewal suggested the development of a video on lab techniques for EPN based on the Kaya & Stock chapter in the Lacey manual.

Election of new officers: The following slate of officers was unanimously elected:

Chair: S. Patricia Stock

Chair-elect: Parwinder Grewal

Secretary/Treasurer: Mary Barbercheck

Member-at-large (1 more year): Robin Stuart

Member-at-large (2 more years): Heikki Hokkanen.

Raising fees for Division members: No decision was made but it was agreed that only non-students should have to pay more, e.g., keep the fee at \$2 for students and raise it to \$5 for other members.

The meeting was closed at 22:15.

Respectfully submitted
Albrecht Koppenhöfer

Virus Division

Membership. The Virus Division Business Meeting

was attended by 45 people, including 40 members of the Division. The meeting was chaired by Chair-elect, John Burand, as the Chair, Ian Smith, was unable to attend. Following several years' growth, the Virus Division's membership has fallen from 138 in July 2001 to 107 in July 2002. The Virus Division remains quite active in the Society with approximately 87 virus-related presentations being given at this meeting in addition to two Symposia (Arthropod-Borne Viruses & Prospects for the Use of Viral Pesticides) and one Plenary Session (Baculoviruses and the Bonus of Biotechnology).

Dues. Members present at the Division's Business Meeting at Noordwijkerhout in 2001 voted to raise our annual dues from US\$3.00 to \$10.00; the student rate was to remain unchanged at \$2.00. This increase in dues was approved by the SIP General Council and should be implemented at the beginning of 2003. The intention of the dues increase is to enable the Virus Division to provide more support for student virologists who wish to participate in SIP meetings; we feel that the single \$200.00 Student Travel Grant currently available was inadequate.

Student Travel Grant. There were five applications for the Virus Division Student Travel Grant for this year. The Virus Division student travel grant of US \$200.00 for 2002 was awarded to Elisabeth Herniou of the Department of Biological Sciences, Imperial College, London.

2003 Symposia. Symposia topics for next year's meeting in Burlington Vermont were discussion and topics for two virus symposia and one cross division symposia were selected by vote. With assistance from the Society's Speaker Fund, the Division expects to be able to support two of the speakers in these sessions next year.

Election of Officers. The Committee for 2002 is comprised of ; Chair: Ian Smith, UK/Japan, Chair Elect: John Burand, USA, Secretary/Treasurer: Martin Erlandson, Canada, Members-at-Large: Primitivo Caballero, Spain and David O'Reilly, UK. John Burand became the Virus Division's Chair during this year's meeting and new officers were elected by members present at the 2002 Business Meeting to fill vacated positions. Jim Maruniak was elected Chair-elect, Jim Slavicek was chosen as Secretary/Treasurer, and Kelli Hoover was elected to the position of Member-at-Large.

Respectfully submitted,

John P. Burand Chair-elect, SIP Virus Division

ANNUAL REPORTS

President's Address and Report 2002

Introductory Comments

This will be my last report to you as your president. I have enjoyed working for the Society in this role for the past two years and look forward to serving as past-president for the next two years. The SIP is now 35 years old, we are in the middle of its 35 annual meeting, and I am in my 35th year as an SIP member. I was in the middle of my graduate studies at the time I joined as a charter member. A lot of things have changed since then. Back then, there were two volumes of the JIP published per year with three issues per volume. Members could subscribe for \$20/volume. Now you get one volume per year of four issues for over \$202 US. We had a small mimeographed newsletter of just a few pages that was laboriously mailed to all members; now we have a professional quality newsletter that you read on your computer screen. I could go on.

Some things have not changed, however, the most important being the manner in which the basic purposes of the Society are carried out successfully through the many facets of our organization, perhaps the most important of which is our annual meeting. From the very earliest meetings there has been an element of excitement that fills the air in the halls, the dining areas, the meeting rooms, and the lounges that invigorates and challenges us as attendees. Our science has grown and changed in its emphases and directions over those 35 years, but the excitement and commitment to our goals are stronger than ever.

I think the SIP has found a formula in the way we conduct our business and format our annual meetings that most other organizations wish they could emulate. Our meeting sites are carefully selected for value added purposes. Our meeting committees have sought geographic variety in their selections over the years to enable as many of our international members to attend over time as possible. The locations are attractive and normally offer opportunities for accompanying persons and families to enjoy local activities before, during and after the



Jim Harper, SIP President, 2000-2002

regular meetings. Those of you who have attended past meetings are well aware of this. For those of you attending for the first time, this meeting is an excellent example. Over the years we have rafted down rivers, walked on volcanoes, climbed steep trails, fought bulls, walked through ancient ruins, and seen some of the most spectacular natural and man-made sights of the world. We have learned the customs and folklore of our respective countries. We have done all this as colleagues who develop close personal and professional ties that strengthen each of us personally and that strengthen our Society and our science. We spend four to five days sharing the results of our work and always return to our respective homes with new ideas, new information and renewed excitement about our jobs – teaching, research, development, graduate studies or other.

For our students and our first time attendees, I hope you have seen this formula for success and how it works; it starts with each of you and with your contributions and work that all come together at this meeting to enhance and build your Society. I hope you find in the Society the stimulation and excitement that will make you want to be an active member throughout your careers. You are the future of Invertebrate Pathology. On behalf of the SIP Council and officers, I encourage you to be as active in the Society as you can be. Be active in your Divisions, in the business of the Society, and volunteer when opportunities arrive to serve. In so doing, you and your science will benefit and grow ever stronger.

Other business

The year 2001-2002 has been one of relative stability for the Society. Since the last meeting in Noorwijkerhout, The Netherlands, the Society officers, our Executive Secretary, Division officers and various Society committees have worked hard to promote the various business activities and interests of the Society. The officers' reports along with the activities and accomplishments of the Divisions and committees will be reported separately in the third 2002 issue of the SIP Newsletter, and I need not repeat them here. I will say, however, that each has worked tirelessly for the Society, and much progress on many fronts has been made to strengthen and improve the Society and its operation. Much of the my work as President this past year has been conducted via e-mail, and has dealt with interactions with nearly all the committees, Divisions, and officers when decisions needing either my input and approval, or in special cases, the approval of the entire Council came up.

Several committees have been restructured and given new, or revised charges this year. Notably, the Endowment and Student Awards Committee has had its responsibilities separated, and the endowment procurement portion of that committee's work has been added to the newly named SIP Endowment and Financial Support Committee which I established in 2000. This is currently a special committee, but I will recommend that it become a standing committee. The previously named Endowment and Student Awards Committee is now named the Awards and Student Contest Committee. The functions of these committees are now separated between fund procurement in the first case, and fund disbursement in the second. Funds disbursed include special member support funds available through our endowment fund, and the various Society level awards to students for both travel to meetings and student paper/poster contest. This committee works closely with the Divisions to coordinate student awards at both levels. The SIP Endowment and Financial Support Committee worked to set up a mechanism to receive funds in memorials to honor deceased members, stimulated by the tragic death of Chris Lomer last October as well as previous members' deaths where a mechanism for donating to an SIP memorial fund did not exist.

A special activity for me this year was to work with Betty Davidson to carry out a long-standing wish of

Council to recognize founding member John Briggs for his years of service as a member and his continued service to the Society for years following his retirement. A special surprise dinner was held in his honor at Columbus, Ohio in March 2002, and we presented him with a certificate honoring him for his many contributions to the Society over the past 35+ years. Several of his former students who have been active SIP members were able to attend as well.

I am pleased that we will give the second Mauro Martignoni Student Travel Award this year. This endowment has grown to over \$9000 with member donations added to the \$5000 given in Mauro Martignoni's will, and interest earned will allow this award to be given indefinitely. It is my hope that additional major endowments can be established for this purpose and that additional contributions to this one will allow funding of more than one student per year in the future. Even with funding from several Divisions for student travel, the number of well qualified students applying for the grants far exceeded the numbers of awards available.

Society elections were held this year with an excellent slate of candidates having been presented by the Nominating Committee, and good voting participation by our membership. The Society will be in excellent hands for the coming two years with the following officers:

Harry Kaya - President; Just Vlak - Vice President; Jim Harper - Past President; Suzanne Theim - Treasurer; Ray Akhurst - Secretary; Alejandra Bravo & John Vandenburg - New Trustees; and Trevor Jackson and Basil Arif continuing as Trustees for two more years.

We were saddened by the deaths of two members this year, Dr. Victor Sprague and Dr. Chris Lomer. Dr. Sprague was a founding member of the Society, and Chris was in the prime of his career at the time of his death. Both will be greatly missed by their friends and colleagues within SIP. Two former members, Dr. Clyde Moore and Dr. Donald M. MacLeod were also reported as having passed away recently. I ask that we all stand for a moment of silence in memory of the lives of these deceased members.

Since this is my last report as President of SIP, I want to thank all my officers, friends, and colleagues who have helped me in the operation of the Society. Special thanks to Secretary Doreen Winstanley and

Treasurer Mickey McGuire. Until you have walked in their shoes, you cannot appreciate the many contributions they have made to the Society during their two-year terms. Past President Juerg Huber and retiring Trustees David Ellar and Lee Solter will be leaving the Council, and have provided great service to the Society in these offices. Harry Kaya, Basil Arif and Trevor Jackson have been great help and will continue on Council for the next two years. As I indicated in item 2 above, each of our committees have provided excellent service, and I offer their chairs and members my sincere thanks. All are listed in the opening pages of your Program and Abstracts.

Similarly, the Division officers have done outstanding work in leading their members in projects, planning, student support, and meeting programming. I have enjoyed working with each of you. Special thanks also go to our Newsletter editor, Leellen Solter, who has two very successful years of experience now, and six outstanding issues to her credit. Our Executive Secretary, Peg Rotstein, continues to work tirelessly for the Society and I am indebted to her for her help this past year.

We had many Corporate and Government Sponsors for our meetings this year and all are recognized clearly on the covers of our Program and Abstracts and in the published Proceedings for these meetings. I hope you will thank members of each sponsoring organization and company personally for their financial support, which is critical to the success of this meeting.

Our Program and Local Arrangements Committees will be recognized at the Banquet this evening, but I wish to give special thanks to Flavio Moscardi as Local Arrangements Chair and Bonifacio Magalhaes as Program Chair for their excellent work. For all of us, this meeting will be among those in our 'most memorable' lists! To the members of their respective committees, we all owe special thanks. Your selection of PJ Eventos and Oliveira Travel as facilitators has proven to be excellent, and they have made our time in Foz do Iguassu most enjoyable and memorable. Brasil has been a wonderful host nation, and we thank all our Brazilian members and colleagues for your warm and friendly hospitality.

Finally, I thank all members of SIP for your support and contributions to the field of Invertebrate Pathology and hope to see you all in Burlington,

Vermont next July!

As my last official act, I am pleased to pass on the SIP gavel to Dr. Harry Kaya, our new President, along with a copy of Robert's Rules of Order. This gavel has been passed from our first President in 1967, Dr. Ed Steinhaus, to the present, and the book has been signed by each president since Phyllis Johnson in 1983. I am pleased to place them both in Harry's very capable hands and to wish him a successful two years as SIP President.

Respectfully submitted,
Jim Harper



Jim Harper presents the President's Gavel to Harry Kaya, SIP President 2002-2004

Treasurer's Report

The financial statements for the Society for the fiscal year ended April 30, 2002 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 CDs. Due to low interest rates, \$70,000 of the Society operating funds was invested in a two year CD earning 4.7% while the Martignoni fund was invested in a one year CD earning 4.35%. The remainder of the assets was held in a money market account (Note 2, Exhibit D). Total interest earned for the fiscal year was \$6,913, down approximately \$5,000 from last fiscal year.

Society expenses totaled \$45,795 (Exhibit B), up from last fiscal year by about \$6,600. However, due in part to a strong annual meeting, net revenue showed a gain of \$16,773, down about \$3,000 from last year. Net profit from the Noorwijkerhout

meeting is estimated at almost \$21,000 including \$4,000 in accounts receivable. Income from membership dues was \$18,715, up from last year's total of \$17,610. Newsletter expenses declined by a third from last year and the society owes many thanks to Peg Rotstein and Lee Solter, and the general membership for obtaining the Newsletter online. In addition, expenses in most categories declined from last year, in large part due to the efforts of the executive secretary. In 2001, \$6,000 was made available to the Divisions for meeting program support with the understanding that similar funds not spent in 2000 could be carried over into 2001. However, those combined funds (\$2,000 for each Division) not spent by the Divisions in 2001 were returned to the general fund. Hence, several of the Divisions show a net loss from the past year.

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, 2002.

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 33% of

the annual operating expenses of the Society. By the end of the fiscal year, SIP had a net worth of \$191,957 up from \$182,846 reported last year. Of this amount \$70,253 was in an interest bearing Cash Management Account with Merrill Lynch and \$128,382 were in CDs. There is currently an outstanding balance from Academic Press for payment of subscriptions for the Journal of Invertebrate Pathology in the amount of approximately \$12,184.

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 addition, investment strategy should be discussed, especially in light of low interest rates. 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, a membership drive to attract more members, 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

Exhibit A: Fund Balances: 4/30/01 and 4/30-02

	4/30/01 Fund Balance	4/30/02 Fund Balance
General and Administrative	\$ 127,627.20	\$ 140,508.00
Virology	\$ 2,320.00	\$ 1,321.00
Bacteria	\$ 1,030.00	\$ 1,266.00
Microsporidia	\$ 2,847.00	\$ 1,953.00
Microbial Control	\$ 6,116.00	\$ 7,959.27
Fungi	\$ 374.00	\$ 634.00
Nematode	\$ 1,242.00	\$ 1,134.00
Endowment	\$ 8,432.19	\$ 8,924.93
Martignoni	\$ 8,048.00	\$ 9,643.00
Chris Lomer Memorial	\$ -	\$ 1,466.00
TOTAL	\$ 158,036.39	\$ 174,809.20

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

ASSETS	2001	2002
Cash Merrill Lynch - EMA	\$ 147,632.76	\$ 70,253.00
Accrued Interest Receivable	\$ 6,784.00	\$ 1,507.00
Funds Receivable	\$ -	\$ 4,000.00
Funds Payable	\$ (15,571.03)	\$ (12,184.42)
Certificates of Deposit	\$ 44,000.00	\$ 128,382.00
TOTAL ASSETS	\$ 182,845.73	\$ 191,957.58

EXHIBIT B**SOCIETY FOR INVERTEBRATE PATHOLOGY****COMPARATIVE STATEMENT OF ACTIVITY
FOR PERIODS ENDED MAY 1, THROUGH APRIL 30, 2002**

REVENUE	General Fund	Board Designated Funds (Schedule 1)	Total 2002	Total 2001
Slide Atlas Sales	\$ 420.00	\$ 1,554.22	\$ 1,974.22	\$ 240.00
Proceedings Sales	\$ 12.00	\$ -	\$ 12.00	\$ 12.00
Membership Dues	\$ 17,070.00	\$ 1,645.00	\$18,715.00	\$17,610.00
Annual Meeting Income	\$ 16,927.00	\$ -	\$16,927.00	\$23,091.32
Meeting Speakers	\$ 5,261.00	\$ 6,000.00	\$11,261.00	\$ 6,000.00
Contributions	\$ 367.00	\$ 3,614.00	\$ 3,981.00	\$ 8,625.00
Video Production	\$ -	\$ -	\$ -	\$ 1,000.00
Interest	\$ 6,018.88	\$ 894.38	\$ 6,913.26	\$11,906.29
Publication Handling Fees	\$ 192.00	\$ -	\$ 192.00	\$ -
JIP Subscriptions collected	\$ 12,184.42	\$ -	\$12,184.42	\$ -
Short Course Profit	\$ -	\$ 44.41	\$ 44.41	\$ -
Miscellaneous	\$ 14.00	\$ -	\$ 14.00	\$ -
TOTAL REVENUE	\$ 58,466.30	\$ 13,752.01	\$72,218.31	\$68,484.61
EXPENSE				
Mailing of dues notices & other	\$ 270.56	\$ -	\$ 270.56	\$ 1,029.69
Program & Abstracts	\$ -	\$ -	\$ -	\$ 7,258.90
Newsletter - Printing, Mailing incl. meeting abstr. & suppl.	\$ 6,171.37	\$ -	\$ 6,171.37	\$ 9,786.02
Travel	\$ -	\$ -	\$ -	\$ 1,324.27
Supplies and Duplicating	\$ 326.75	\$ -	\$ 326.75	\$ 199.37
JIP Subscriptions paid out	\$ 13,134.00	\$ -	\$13,134.00	\$ -
Office Equipment	\$ 322.65	\$ -	\$ 322.65	\$ -
Accounting Services	\$ 500.00	\$ -	\$ 500.00	\$ 750.00
Internet Services	\$ -	\$ -	\$ -	\$ 480.00
Secretariat (Peg's Salary)	\$ 9,372.00	\$ -	\$ 9,372.00	\$ 7,920.00
Telephone	\$ 796.54	\$ -	\$ 796.54	\$ 1,034.25
PO Box & Mail forwarding	\$ 174.00	\$ -	\$ 174.00	\$ 208.00
Awards*	\$ 6,063.71	\$ 1,700.00	\$ 7,763.71	\$ 1,795.00
Credit Card Charges	\$ 1,096.89	\$ -	\$ 1,096.89	\$ 844.72
Bank Account Fees	\$ 173.83	\$ -	\$ 173.83	\$ 210.00
Speakers at Meeting	\$ 7,242.00	\$ 7,750.00	\$14,992.00	\$11,250.00
Martignoni Fund Donation	\$ -	\$ 200.00	\$ 200.00	\$ -
CD reinvestment (See note 3)	\$ -	\$ -	\$ -	\$ 2,000.00
Slide Atlas Expense	\$ 146.95	\$ -	\$ 146.95	\$ -
Video Production	\$ -	\$ -	\$ -	\$ 1,000.00
Miscellaneous	\$ 4.00	\$ -	\$ 4.00	\$ -
TOTAL EXPENSE	\$ 45,795.25	\$ 9,650.00	\$55,445.25	\$47,090.22
Net Revenue Before Fund Transfers	\$ 12,671.05	\$ 4,102.01	\$16,773.06	\$21,394.39
Endowment Fund Transfer	\$ 210.00	\$ (210.00)	\$ -	\$ -
Net Revenue After Fund Transfers	\$ 12,881.05	\$ 3,892.01	\$16,773.06	\$21,394.39

EXHIBIT C**Society for Invertebrate Pathology****Board Designated Fund Revenue & Expense for Period May 1, 2001-April 30, 2002, Schedule 1**

	Virology	Bacteria	Micro- sporidia	Microbial Control	Fungi	Nematode	Endow- ment	Martignoni Fund	Chris Lomer Fund	Total
REVENUE										
Membership Dues	\$ 401.00	\$ 236.00	\$ 106.00	\$ 500.00	\$ 260.00	\$ 142.00				\$ 1,645.00
Contributions							\$ 303.00	\$ 1,445.00	\$ 1,466.00	\$ 3,214.00
Speaker Contrib. From SIP fund	\$1,000.00	\$1,000.00	1,000.00	\$1,000.00	\$1,000.00	\$1,000.00				\$ 6,000.00
Martignoni Fund Contributions from SIP Fund & Virus Div. Short Course at Annual Meeting				\$1,800.00				\$ 400.00		\$ 400.00
Slide Atlas CDs				\$2,160.00						\$ 2,160.00
Interest Income				\$ 244.64			\$ 399.74	\$ 250.00		\$ 894.38
Total Revenue	\$1,401.00	\$1,236.00	\$1,106.00	\$ 5,704.64	\$1,260.00	\$1,142.00	\$ 702.74	\$2,095.00	\$ 1,466.00	\$16,113.38
EXPENSE										
Travel Awards	\$ 200.00			\$1,000.00				\$ 500.00		\$1,700.00
Short Course Manuals				\$1,755.59						\$1,755.59
Slide Atlas CD Costs				\$ 605.78						\$ 605.78
Martignoni Fund Donation Meeting	\$ 200.00									\$ 200.00
Speakers Unused	\$ 508.00	\$ 913.00			\$ 318.00	\$ 750.00				\$2,489.00
Speaker Fund	\$1,492.00	\$ 87.00	\$2,000.00	\$ 500.00	\$ 682.00	\$ 500.00				\$5,261.00
Total Expense	\$2,400.00	\$1,000.00	\$2,000.00	\$3,861.37	\$1,000.00	\$1,250.00	\$ -	\$ 500.0	\$ -	\$12,011.37
Net Revenue Before Fund Transfers	(999.00)	\$ 236.00	\$ (894.00)	\$1,843.27	\$ 260.00	\$ (108.00)	\$ 702.74	\$1,595.00	\$ 1,466.00	\$4,102.01
Fund Transfers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	(210.00)	\$ -	\$ -	\$ (210.00)
Net Revenue after Fund Transfers	\$ (999.00)	\$ 236.00	\$ (894.00)	\$1,843.27	\$ 260.00	\$ (108.00)	\$ 492.74	\$1,595.00	\$1,466.00	\$3,892.01

EXHIBIT D

Note 1: Membership Dues (previous; current)	2001	2002
Full Member (502@\$30; 516@\$30)	\$15,060.00	\$15,480.00
Student Member (76@\$15; 106@\$15)	\$ 1,140.00	\$ 1,590.00
Microsporidia (58@\$2; 53@\$2)	\$ 116.00	\$ 106.00
Virology (35@\$2, 86@\$3; 133@\$3, 1@\$2)	\$ 328.00	\$ 401.00
Bacteria (103@\$2; \$118@\$2)	\$ 206.00	\$ 236.00
Microbial Control (222@\$2; 250@\$2)	\$ 444.00	\$ 500.00
Fungi (112@\$2; 130@\$2)	\$ 224.00	\$ 260.00
Nematode (46@\$2; 71@\$2)	\$ 92.00	\$ 142.00
TOTAL	\$17,610.00	\$18,715.00

Note 2: Interest and Investments

Investments owned by SIP

	CD PROVIDIAN N.B. TILTO	CD COLE TAYLOR BANK	CD IBJ WHITEHALL BK & T	CD FIRST FEDERAL SVGS	TOTAL
Society Operations:					
Cost	\$70,000.00	\$37,464.23			\$107,464.23
Maturity Date	7/11/03	4/10/03			
Interest Rate	4.65%	2.70%			
Endowment Fund:					
Cost				\$ 7,000.00	\$ 7,000.00
Maturity Date				7/11/02	
Interest Rate				3.90%	
Microbial Control					
Cost		\$6,535.77			\$ 6,535.77
Maturity Date		4/10/03			
Interest Rate		2.70%			
Martignoni Fund					
Cost			\$ 8,000.00		\$ 8,000.00
Maturity Date			7/11/02		
Interest Rate			3.90%		
TOTAL VALUE	\$70,000.00	\$44,000.00	\$ 8,000.00	\$ 7,000.00	\$129,000.00

EXHIBIT D (Continued)**Note 3: CD
transfer**

<i>2001 CD Name</i>	<i>2001</i>	<i>Interest</i>	<i>2001 CD Name</i>	<i>2002</i>	<i>Purpose</i>
CD Purchase Pending	\$ 70,000.00	\$ -	CD PROVIDIAN N.B. TILTO	\$ 70,000.00	Society Operations
CD WESTERNBK OF PR	\$ 25,000.00	\$ 1,587.50	CD COLE TAYLOR BANK	\$ 44,000.00	Society Operations/Microbial Control
CD FCNB BK	\$ 19,000.00	\$ 1,200.80	CD IBJ WHITEHALL BK & T	\$ 8,000.00	Martignoni Fund
			CD FIRST FEDERAL SVGS	\$ 7,000.00	Endowment Fund
TOTAL INVESTMENT	\$114,000.00	\$ 2,788.30		\$129,000.00	

**Note 4: Meeting Speaker Support
Worksheet**

	Virology	Bacteria	Microsporidia	Microbial Control	Fungi	Nematode
2000 Meeting Donation	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00
Used 2000	0.00	-1,000.00	0.00	-1,500.00	-1,000.00	-750.00
2001 Meeting Donation	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00
Used 2001	-190.00	-913.00	0.00	0.00	-318.00	-750.00
	-318.00					
NET (funds returned to SIP)	1,492.00	87.00	2,000.00	500.00	682.00	500.00

Audit of the Treasurer's Report for Fiscal Year 2001-2002

The Treasurer's report appears to be accurate and in order. The Society continues to be in relatively good shape financially, especially considering the drop in interest rates for the past year. There was an increase in the General and Administrative fund of \$12,880.80 from 2001 (\$127,627.20) to

2002 (140,508.00). Given current interest rates \$70,000 from the Merrill Lynch account was invested in certificates of deposit at modestly higher rates. Total expense from the General Fund for 2002 was up slightly reflecting changes in Society awards and speaker support. Net revenue gains acquired from the Noorwijkerhout meeting countered these expenses.

The financial health of the Society derives in large part due to the profitability of our annual meetings and the services provided by our Executive Secretary, Margaret Rotstein, and our Newsletter Editor, Lee Solter. However, income from memberships still constitutes a relatively low percentage (ca. 33%) of our annual operating expenses. Modest increases in dues may be considered, however as stated by the Treasurer, "such increases may not be in the Society's best interest". Increasing the membership body offers distinct advantages over increasing the dues. Thirty new student and 14 new full members joined the Society this year. Every effort should be extended to increase our membership rolls with perhaps a special effort to contact past members who have let their membership lapse in recent years. A membership drive is strongly encouraged as well as developing sustaining membership program, workshops and revenue generating projects.

Wayne Brooks and Wes Watson

Audit Committee:

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. In addition to these duties, I also maintain the website for the Society.

As the number of divisions and investments has increased, bookkeeping for the Society has become more complicated. Early this year I converted our bookkeeping data over to a new software program. This program will help maintain the Society's increasingly complicated financial data. In addition to this software, I am seeking personal training from an accounting organization to utilize this software to its full potential and improve the Societies' budgeting.

This year I am proposing to the SIP council that the Society acquire a VISA card account through our bank, Merrill Lynch. With a credit card, I will be able to purchase supplies and services for the Society and keep better track of expenditures,

eliminating the need for almost all petty cash accounting. Many cards can be issued per account; therefore the Society can issue cards to meeting organizers or other members that have specific spending requirements. The VISA card accounts can be downloaded into our accounting software and we will be able to keep better track of expenditures. A pre-set spending limit can be determined for each card. All VISA statements will be mailed to, reviewed and paid for by the Treasurer. The card will minimize the amount of checks written and the time and cost in mailing checks back and forth from the Treasurer to the Executive Secretary.

Membership numbers have been declining over the past few years. Online Membership renewal continues to be a popular choice for our members; however the convenience of receiving the newsletter online may prevent some members from keeping their membership current. The Society may want to consider the following options to improve membership numbers and reward members that keep their membership current.

One option would be to add late fees to the membership form. An alternate option is to require a secure login to a member's only section of our website. This area would include member search, newsletters and job postings. I can implement this feature on our website at any time and mail instructions to all members. Members would be able to maintain their own user account and set their own password. Forgotten usernames and passwords can be requested by an automated email system. These options will be discussed at this year's council meeting in Brasil.

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, SIP

2002 SIP Newsletter Report

Three issues of the Newsletter comprising a total of 111 pages were produced in the 2001-2002

year. In addition to 104 pages of Newsletter text, there was one supplement comprising 7 pages. The supplement consisted of the registration forms for the Fos do Iguassu meetings. Meeting announcements, position advertisements, SIP meeting registration and other information of a timely nature was also posted on the SIP Website.

Peg Rotstein for final layout, printing, collating and mailing.

Respectfully submitted,

Leellen Solter, Newsletter Editor

Mark S. Goettel, Assistant Newsletter Editor

Newsletter Financial Report, July, 2002-08-05

Total cost of Newsletter (3 issues): \$5,288.23

Cost per member based on 650 members: \$8.14

	Nov 2001	Feb 2002	Jun 2002
	Vol 34(3)	Vol 35(1)	Vol 35(2)
	56 pp.	24 pp	31 pp.
<u>Expenses at Urbana (USD\$)</u>			
Photograph scanning	122.66	40.00	32.25
Subtotal	122.66	40.00	32.25
<u>Expenses at Raleigh</u>			
Printing	980.00*	924.27	955.40
US	230.95	159.65	152.00
Mailing ¹			
Int'l	846.30	403.00	441.75
Mailing ¹			
Subtotal	2057.25	1486.92	1549.15
TOTAL	2179.91	1526.92	1581.40

* Discounted price from printer after delays

¹ Includes mailing of membership renewals

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

The Newsletter is available on the Society's website as downloadable Adobe PDF files. Approximately 44% of members chose not to receive hard copies of the Newsletter, thereby saving the Society considerable mailing costs.

We are grateful to all members who contributed material to the Newsletter this year, particularly photographs and input regarding electronic publications, and encourage all members to send news of interest to the Society. Special thanks to

COMMITTEE REPORTS

Meetings Committee Report

The 34th Annual Meetings were held in Noordwijkerhout, The Netherlands, August 25-30, 2001. More than 425 persons attended and 339 contributions were presented as posters, submitted oral presentations or within 19 symposia. The transfer of the meeting from Israel to The Netherlands worked out well thanks to the collaborative efforts of all involved.

The meeting format was changed in that the meeting began on a Saturday evening and finished on Thursday morning. This provided a challenge to the organizers to fit in all the program in this shortened time span. The Committee is very grateful to Dr Just Vlak and Meir Broza and their teams for the organization of an excellent meeting both scientifically and socially. All participants enjoyed the Dutch hospitality and good weather.

The Committee communicated frequently with the Organizing Committee of the 35th Annual Meeting, Iguassu Falls, Brasil, August 18-23 and is expecting a very successful meeting at another exotic and interesting venue. This brings us back to our previous format, with the meetings commencing on a Sunday evening and ending on a Friday afternoon. Further details can be found in Dr. Moscardi's report to Council.

The offer from Dr John Burand and his team to host the 2003 Annual Meeting (36th) in Burlington, Vermont, USA, was approved by Council in 2000 at Guanajuato. The meetings will be held at the Radisson Hotel, 25 - 31 July. This brings us back to another test format with the meeting starting on a Saturday evening and ending on a Wednesday. Further details can be found in Dr. Burand's report to Council.

The committee considered scheduling the 2004 meeting in the Australasian region so that it would make it possible for delegates to also attend the International Congress of Entomology which will be held in Brisbane, 15 - 21 August. However, after having a closer look at the venues of upcoming meetings and consulting with members, the Committee decided that Europe would be a more appropriate venue for 2004. Consequently, the Committee is seeking to have the 2004 Annual Meeting in conjunction with the International Conference on *Bacillus thuringiensis* in Europe and welcomes suggestions and proposals from members.

The Committee is expecting a written proposal for hosting the 2005 Meetings in Michigan, USA. The Committee received a proposal from Professor Ziniu Yu to host the 2006 Meetings at Wuhan, China. The Committee studied the proposal and the Committee Chair had the opportunity to visit the site in early June. The Committee recommends to Council that this proposal be accepted and that Wuhan be the site for the 2006 International Colloquium.

The Committee has the intention to maintain an international spread of future meetings, alternating venues between Northern America and other parts of the world. The Committee is awaiting offers for the 2005 Annual Meeting and beyond. The approved and tentative sites for SIP Meetings through 2004 are as follows:

2002^{1, 2} Iguassu Falls, Brasil, August 18-23, F. Moscardi
 2003, Burlington, USA, July 25 - 31, J. Burand
 2004² Europe, soliciting proposals
 2005 Open, MidWest USA, Tentative
 2006^{1, 2} China recommended
 2007 North America, open

¹ International Colloquium

² International Conference on *Bacillus thuringiensis*

After having had the current format of annual meetings for many years, the former Committee discussed whether some changes should be made to meet the present and future demands of the membership. A new format was adopted for last year, in part due to the late change in venue. Following the Netherlands meeting, the

Committee received only 2 comments, both in favor of retaining the previous Sunday evening to Friday noon format. The Committee welcomes suggestions on how to improve meetings and invites proposals for future meetings.

To facilitate the preparation of proposals for potential venues, the Committee has prepared a "Guidelines for the Preparation of a Proposal to Host the Annual Meetings of the Society for Invertebrate Pathology". These guidelines are available to anyone wishing to consider hosting a future SIP meeting and are available from the Committee Chair.

Members of the Committee are Mike Adang, Brian Federici and Mark Goettel as Chair.

Respectfully submitted.

Mark Goettel, Chair

Teller's Report

The Teller's Committee for the SIP 2002 elections consisted of: Sally Wormleaton, Chair, Paul Jarrett and David Chandler.

Several voting envelopes from Wageningen were received well after the deadline even though they appear to have been posted in good time.

The results were as follows:

President: Harry Kaya
 Vice-President: Just Vlak
 Secretary: Raymond Akhurst
 Treasurer: Suzanne Theim
 Trustees: Alejandra Bravo
 John Vandenberg

Sally Wormleaton

2002 Membership Committee Report

Composition of SIP Membership: There has been a dramatic decrease in membership during the past year (see table and chart for breakdown by country and region). Overall, there was a 27% decrease in membership and a net loss of 184 members. Currently, there are 505 members worldwide

representing approximately 50 countries (as of July 30, 2002). Approximately 50% of the members are from North America (US, Canada and Mexico). Membership for all regions has declined with the greatest losses occurring in Eastern Europe with a 47% decrease and the smallest decrease in Central and South America (down 6%). Decreases for North America and Western Europe were 26 and 27% respectively. There was not the expected increase in membership from South America as normally occurs for the region where the annual meeting is held.

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 Fungi, Virus, Bacteria, Nematode and Microsporidia.

Activities during 2001/2002: One membership renewal form was sent out this year followed with a reminder in April along with a mass e-mailing on July 30, 2002. Results of this will be presented at the board meeting.

Most members who have cancelled their memberships, reported that they either no longer work in the area of invertebrate pathology, or have retired.

Suggested activities for 2002/2003: Online membership renewal was very successful: 211 members renewed via the Internet, approximately 42% of the membership.

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.

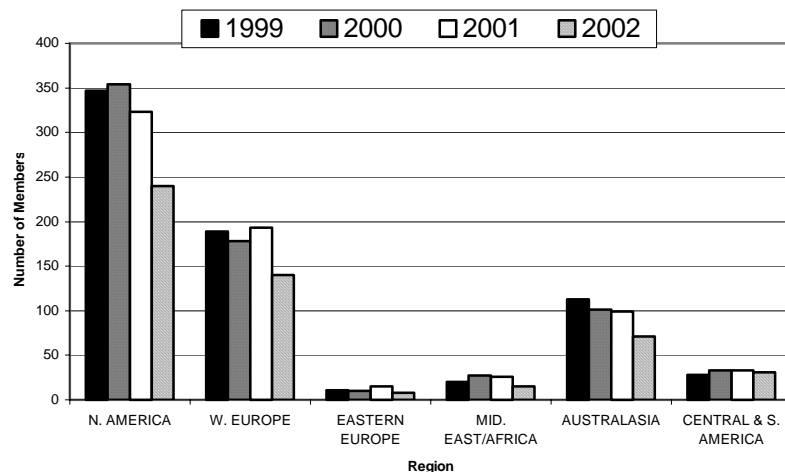
The Membership Committee: The Membership Committee for 2000/2001 consists of Jorge Ibarra, Robert Anderson, Lerry Lacey and James Becnel.

James J. Becnel
Chair

DIVISION MEMBERSHIP 2002

Division	Number of Members
Microsporidia	49
Microbial Control	208
Bacteria	100
Virus	106
Fungus	110
Nematode	54

SIP MEMBERSHIP 1999-2002



SIP MEMBERSHIP

LOCATION	1997	1998	1999	2000	2001	2002	%change
CANADA	63	54	46	50	52	38	
MEXICO	16	12	9	31	15	13	
UNITED STATES	343	308	292	273	256	189	
N. AMERICA	422	374	347	354	323	240	-26%
AUSTRIA	4	3	5	6	6	4	
BELGIUM	8	5	4	3	3	2	
DENMARK	7	6	6	3	5	5	
FINLAND	3	2	2	2	3	3	
FRANCE	37	25	23	26	23	17	
GERMANY	17	18	16	17	24	9	
GREECE	1	1	2	1	1	1	
IRELAND	-	-	-	-	2	-	
ITALY	12	10	4	4	4	3	
NETHERLANDS	15	13	13	13	21	12	
NORWAY	2	2	2	2	3	2	
PORTUGAL	7	6	5	4	3	2	
SPAIN	13	8	9	9	10	11	
SWEDEN	8	7	6	5	4	4	
SWITZERLAND	7	8	8	7	4	5	
UNITED KINGDOM	83	81	84	76	77	60	
W. EUROPE	224	195	189	178	193	140	-27%
BULGARIA	-	1	1	1	0	-	
CZECH REPUBLIC	4	3	3	2	1	1	
MOLDOVA	1	1	1	1	2	2	
POLAND	4	3	2	3	7	2	
ROMANIA & LATVIA	3	4	3	2	3	1	
RUSSIA	1	-	2	2	2	1	
UKRAINE	-	-	-	-	-	1	
EASTERN EUROPE	13	12	12	11	15	8	-47%
EGYPT	5	3	3	3	2	1	
IRAN	-	-	-	2	2	-	
ISRAEL	12	13	9	9	11	6	
KENYA	3	3	2	3	4	1	
SOUTH AFRICA	3	3	3	4	3	3	
WEST AFRICA	3	2	3	4	3	1	
TURKEY	2	1	-	1	1	3	
MID. EAST/AFRICA	30	27	20	27	26	15	-42%
AUSTRALIA	25	28	23	23	22	13	
PR OF CHINA	11	10	8	6	4	6	
INDIA	3	3	3	4	3	1	
INDONESIA	-	-	-	-	2	1	
JAPAN	51	86	50	49	47	36	
NEW ZEALAND	9	5	7	7	10	5	
PHILLIPINES	3	3	4	2	3	2	
KOREA	3	3	4	3	2	3	
TAIWAN ROC	8	10	8	4	3	2	
THAILAND	4	5	6	3	3	2	
AUSTRALASIA	117	153	113	101	99	71	-28%

SIP MEMBERSHIP (Continued)

LOCATION	1997	1998	1999	2000	2001	2002	%change
ARGENTINA	6	7	6	5	11	7	
BRASIL	23	22	16	16	15	23	
COLOMBIA	3	1	4	6	2	-	
COSTA RICA	2	1	-	3	-	-	
DOMINICAN REP.	1	1	1	1	1	-	
NICARAGUA	-	-	-	-	1	-	
PERU	1	1	1	1	-	-	
VENEZUELA	-	-	-	1	3	1	
CENTRAL & S. AMERICA	36	33	28	33	33	31	-6%

Secretary's Report

I carried out my duties, which included preparing the agenda for the Executive Council Business meeting and the General Business meeting and recording the minutes for these meetings.

For the first time the reports of the Executive Council members were distributed electronically, prior to the meeting, rather than following the previous practice of sending hard copies, saving time and money. In addition, voting slips and envelopes for the 2002 Executive Council elections were distributed electronically where possible. This saved money for the Society and the response was similar to that using the previous procedure.

The Secretary would like to thank Peg Rotstein for taking on the day to day running of the Society and for her support, as well as the President and members of the Executive Council.

SIP Endowment and Financial Support Committee

Formerly known as the SIP Fund-Raising Committee, the responsibilities (and the name) of the committee were modified, with Council's approval, in November of 2001. In addition to the committee's continuing charge to coordinate and solicit corporate and other funding in support of the annual meeting, the task of establishing and coordinating fund procurement for SIP endowments and memorial funds has been added to its responsibilities.

Status of corporate fund-raising, endowment and memorial funds: 2001 vs. 2002

	2001	2002
Corporate donations	13,000	10,150
Endowment	8,432	8,925
Martignoni	8,048	9,643
Lomer Memorial	----	1,466

Activities conducted 2001/2002:

Corporate supporters of the 2001 meeting received thank you letters from President Harper.

For the 2002 meetings, approximately \$10,150 was pledged by 10 different companies. These funds will be deposited in the SIP bank account, and will be counted as meeting income. The consolidation of the agrichemical industry is a continuing problem for corporate fund raising. Last year, we were able to raise \$13,000, so this year's total is a significant decrease. In the future, it will be difficult to raise more than \$10,000 each year using our current approach.

An informal survey of contributing companies was conducted to determine if companies were satisfied with the current method of fund-raising, or if they preferred an alternate means (supporting students, dinners, sustaining memberships, etc). Overall, company representatives preferred to retain the current system of annual solicitations and did not see an advantage to sustaining memberships.

To address the confusion that has occurred in the past few years as zealous (but somewhat uncoordinated) fund-raising efforts were made by several different groups simultaneously, efforts were made to improve the efficiency of fund-raising efforts. To this end, the meeting organizers were kept informed of all fund raising committee activities. Similarly, Division chairs were asked to coordinate their fund-raising efforts with the SIP President to avoid duplication of effort between the Fund raising committee and Division chairs. This approach seems to have worked satisfactorily, and was apparently not so burdensome as to discourage fund-raising efforts. However, a brief discussion at the Council meeting on the efficacy of this approach would be beneficial.

An SIP Memorial Fund was established as a means for SIP colleagues, friends or family to honor a deceased SIP member via donations in their name. Solicitations for the fund have appeared in the SIP newsletter and on the SIP website. The first named fund in the Memorial Fund was established in November, 2001 for Chris Lomer. Funds collected are designated to provide grants to support travel to SIP meetings for insect pathologists working in the developing world. To date, this fund has collected \$1,466. At today's interest rates, this fund will require roughly another \$5,000 in donations before sufficient interest is generated to begin distributing grants. A resolicitation of funds during 2002-2003 is planned.

Recommendations for 2002/2003

The consolidation of the agricultural industry may result in a decreased, or at best, steady-state level of funding for SIP. Other potential sources of funding should be considered, including:

Expansion of potential corporate donor list to include book and journal publishers, laboratory supply companies, toxicology testing/regulatory management companies, etc.

Opportunity for companies to participate as meeting exhibitors

More aggressive fund-raising efforts among the SIP membership. For example, develop more comprehensive descriptions of the endowment and memorial funds to be used as an attachment to SIP membership forms and renewals

Financial administration of the Memorial Fund: At present, all donations have become part of the SIP general fund, but are monitored (along with interest)

separately, on paper by Peg Rotstein. Until the fund generates enough cash to warrant a sub-account of its own (a cost of \$75/year), this procedure is probably adequate. However, development of more sophisticated spreadsheets or accounting software that would allow more tracking of specific funds and interest would probably make Peg's job a bit easier, as well as clarify financial reporting.

It has been suggested that the Committee Chair participate in the student and endowment award judging process as a means of insuring that awards are granted according to the guidelines and spirit of each endowment or memorial fund. However, this may bog down the judging process, and is probably unnecessary. It is instead suggested that the Chairs of the Endowment/Financial Support Committee and the Student Awards Committee coordinate each year to make sure that all funding guidelines are available and are clear to the judges.

Appointment of new members to the committee is requested to address the loss of Sue MacIntosh (whose new job has sadly taken her away from SIP related activities) and for further assistance. Dr. Pat O'Leary of Cotton Incorporated has agreed to serve, and Dr. Micky McGuire, in his role as Treasurer, will serve in an advisory role. We are still seeking one more committee member, ideally from industry.

The original Fund-Raising Committee was appointed in August, 2000 and at that time was an ad-hoc committee. With the addition of the endowment responsibilities, the new SIP Endowment and Financial Support Committee should become a continuing committee of the SIP.

Founders' Lecture Committee Report

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).

The Committee was convened during the Society's 2001 Noordwijkerhout meeting, where an overview of past Founders' Honorees and Lecturers was presented by the Chair. 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, Dr. Peter Luthy be invited to be the Society's 2002 Founders' Lecturer and Dr. Huguette de Barjac to be the Honoree.

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

Dr. Luthy will deliver the 2002 Founders' Lecture in honour of Dr. de Barjac during the Opening Plenary Session of the Iguassu meeting.

As is the usual practice, the Committee will convene during the Iguassu meeting to consider and recommend the Founders' Lecturer and Honouree for the 2003 meeting.

On behalf of the Founders' Lecture Committee
Yours faithfully,

Professor Dudley Pinnock, Chair

Publications Committee Report

Two major activities were sponsored by the Publications Committee:

Mark Goettel and David Onstad are convening a workshop on future publications at the International Colloquium on Invertebrate Pathology and Microbial Control, in Iguassu Falls, Brasil. The workshop is entitled "The Future of Scientific Publications" Speakers include representatives from a scientific library, a journal publisher, a book publisher and an e-publisher. A panel discussion will follow. This topic has become an important issue within our scientific community. Our members around the world are upset with the access to, cost of, and control over both journals and books. Some members of the Publications Committee believe that our society may need to take bold steps in the future to address each of these concerns.

The SIP Publications Committee surveyed the members of SIP via email to learn how the membership feels about publications, electronic publishing, and our web site. We planned to use survey results to better understand the members and

to make better decisions about future publications. Our results will not be valid for non-email members (about 100). Given the survey was via the web, some questions had biased outcomes. 25% of the members with valid email names responded. 75% of the respondents work in Europe, Canada and USA. Details of the survey were presented at the workshop in Brasil.

David Onstad, Chair

OBITUARIES

We sadly announce that Dr. John Briggs, passed away on 27 November. We will publish an obituary in the next Newsletter.

MEMBERS ON THE MOVE

Dr. Steven M. Sait has a new address:

School of Biology,
Miall Building,
University of Leeds,
Leeds,
LS2 9JT. UK.
Tel.: +44(0)113 3437039 (office)
or 0781 5297007 (mobile)
Fax: +44(0)113 3432835
Email: s.m.sait@leeds.ac.uk

Moving??

Please prepare a paragraph including information about past and present postings, new address, telephone, fax and email address and send to your Newsletter Editor for inclusion in the Move Section in the next issue of the Newsletter. The editor's address can be found on page 2.

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

POSITIONS AVAILABLE

Post-Doctoral Research Associate in Molecular Mycology/Insect Pathology. University of Maine, Orono, ME, USA. Position available immediately to examine the impact of a commercial clonal formulation of the entomopathogen *Beauveria bassiana* on the genetics of indigenous populations of the same entomopathogen. Initial projects include collection of field isolates, using DNA fingerprinting to examine the genetics of treated and untreated populations and producing a marker gene labeled strain of *B. bassiana* for recombination experiments.

The employee is expected to collaborate with USDA-ARS colleagues based in Ithaca, NY and supervise undergraduate students assisting with laboratory and field work. Field work may require travel to off-campus field sites. In addition, the individual is expected to contribute to the writing of grant proposals and publications. This is a 2-year appointment, with re-appointment contingent upon performance and availability of funds. (Initial funding is available 2 years.)

SALARY: \$30, 000 per year. Ph.D. in Mycology, Insect Pathology, Plant Pathology, Molecular Biology, Microbiology or related field required. Experience with fungi and molecular techniques, such as DNA extraction, PCR and cloning required. Experience with data analysis and statistical software required. Experience with insect pathology is preferred. Good oral and written communication skills are required. Demonstrated ability to exercise independent judgement and initiative and manage multiple projects and deadlines. Ability to travel normally requiring a driver's license. Expires: 02/28/03

Contact information for applicants:

Dr. Seanna Annis

Email: sannis@maine.edu, phone: 207-581-2621
or

Dr. Ellie Groden at email:

eleanor.groden@umit.maine.edu, phone: 207-581-2984

Please send a letter of application, CV, list of pertinent courses and 3 letters of reference to: Dr. Seanna Annis, Dept. of Biological Sciences, 5735 Hitchner Hall, University of Maine, Orono, ME, 04469

University of Maine website:

<http://www.umaine.edu/default.htm>

The University of Maine is an Affirmative Action/Equal Opportunity Employer.

Postdoctoral Research Associate. Manhattan, Kansas, USA. A postdoctoral research associate is sought to work on an NIH-funded project examining the role of apoptosis in anti-viral immunity in insects. The successful candidate will join a highly interactive and dynamic research group working in a brand new research facility. Applicants must have a Ph.D. and excellent technical and communication skills, preferably with a background in apoptosis, virology, or entomology.

The position includes an attractive wage and benefits package, and is located in a pleasant college town environment with low cost of living and high quality of life. Applicants should send a cover letter describing their interest in the position along with a curriculum vita (including the names and contact information for three references) to Dr. Rollie Clem, Division of Biology, 307 Ackert Hall, Kansas State University, Manhattan, KS 66506. Email: rclem@ksu.edu. Screening of applications will begin November 15, 2002, and continue until the position is filled. Expires: 01/01/03.

Contact information for applicants:

Dr. Rollie Clem

Kansas State University

Division of Biology

232 Ackert HallManhattan, KS 66506 USA

email: rclem@ksu.edu

For more information see our website:
<http://www.ksu.edu/virology>

KSU is an equal opportunity employer and highly encourages diversity among its employees.

Postdoctoral Molecular Biologist. The incumbent will work at the USDA-ARS-WICS, Research Unit in the Cotton Enhancement program in Shafter, CA 93263, where research emphasis focuses on the development of new and improved cotton germplasm and genomics (structural and functional) with the application of molecular markers. The incumbent will develop, screen, and map molecular markers such as SSRs and SNPs from potential sequences of express tag (EST) data base developed by Dr. Thea Wilkins of UC Davis. A dynamic publicly available set of molecular markers for

studying genetic diversity and mapping will be created from the results of this research. The markers will be used in assisting breeding for cotton improvement. In addition, the postdoctoral fellow will characterize isolates, at the molecular level, of *Beauveria bassiana*, a fungal pathogen isolated from the Western Tarnished Plant Bug (WTPB) in the San Joaquin Valley. Specific molecular markers will be used to determine efficacy of the new strains against WTPB populations following application of the new strains. The research is difficult and requires integration of unique and novel approaches in plant and/or fungal genetics. Research will be coordinated with other scientists from ARS, and private and public institutions.

Requirements: Ph.D. in field related to plant and/or fungal molecular biology. Knowledge of molecular marker technology.

For additional information contact:

Dr. Mauricio Ulloa / Research Geneticist
USDA-ARS, WICS, Res, Unit. Tel. 661-746-8009
or 661-746-8015; email:mulloa@pw.ars.usda.gov,
17053 N. Shafter Ave., Shafter CA 93263
or Dr. Michael McGuire, USDA-ARS 661-746-8001
mmcguire@pw.ars.usda.gov

Senior Postdoctoral Associate. Department of Entomology and Nematology, University of Florida, Gainesville, FL. We seek an experienced insect virologist, knowledgeable in current molecular and biochemical techniques, to study poxvirus gene expression, structural and functional analysis of viral proteins expressed in host hemocytes, and viral gene regulation of dipteran host immune responses.

Applicants must show evidence of productivity (reprints) and have an excellent command of English and reading and writing skills. A Ph.D. in virology or molecular biology is required with knowledge of making viral constructs, in vitro translation techniques and cDNA library construction. Must be familiar with current bioinformatics tools and use of EST databases, etc.

Appointment is initially for one year with the possibility of renewal for up to two additional years, depending on performance and availability of funds.

Very competitive salary. Applicants with at least one (1) year postdoctoral experience preferred. Health

insurance and full support for travel to one scientific meeting per year will be provided.

An interview in person is required before an offer can be made. Expires: 07/01/03
Inquiries by e-mail and contact:

Dr. Pauline O. Lawrence
Department of Entomology and Nematology
P.O. Box 110620
University of Florida
Gainesville, FL 32611-0620
E-mail: pol@mail.ifas.ufl.edu

Postdoctoral Assoc. - Insect Molecular Biologist.

A postdoctoral position is immediately available to identify and functionally characterize genes expressed in the insect midgut. Applicants should be highly motivated and have a PhD degree in biological sciences with training and research experience in molecular biology and biochemistry. Knowledge in insect biology is helpful but not essential. Appointment is on an annual basis with the possibility of renewal for up to 2 years or longer depending on research progress and funding availability. Contact information for applicants: Send a CV and names of three references to:

Dr. Ping Wang
Department of Entomology
Cornell University
NYS Agricultural Experiment Station
Geneva, NY 14456.
E-mail: pw15@cornell.edu
Fax: (315) 787-2326
Cornell University is an equal opportunity employer.

POSITIONS WANTED

Postdoc or research associate: PhD seeks Post doc or Research Associate position in the following areas: Microbial Control, Insect Pathology, Biological Control, Integrated Pest Management. PhD studies included evaluation of 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. Johny**, G.S. Gill Research Institute, Guru Nanak College, Chennai - 600 042, INDIA, Phone: (044) 244 0827, Telefax: 091-044-244 46 21 Email: johny_shajahan@hotmail.com, grignc@giasmd01.vsnl.net.in

Postdoctoral Researcher/Associate. Postdoctoral position sought in the following areas: Molecular Biology, Microbiology, Virology. PhD studies included the genetic characterisation of a baculovirus infecting *Trichoplusia ni*. Experience includes: molecular biology, general microbiology, basic insect cell culturing. Languages spoken and written: English & Afrikaans (very similar to Dutch). Lecturing experience: 4 years. Experience in student supervision up to doctoral level. Contact: bfielding@uwc.ac.za
www.biotechnology.uwc.ac.za

Research associate: Entomologist with research experience studying baculoviruses. Expert in bioassay experiments and would like to develop eco-friendly UV protectants for NPVs. I have worked with Dr. Patrick R. Hughes at BTI, Cornell University, USA, and have some innovative ideas to check UV-inactivation of NPVs at molecular level. Seeking a position in the USA or Europe. Contact information:
Sumit Chakrabarti
Email: tisum2001@yahoo.co.in

Post-doctoral Research Position wanted: I am a Ph.D student majoring in Entomology and Insect Pest Control, and working on entomopathogenic fungi. I have constructed the transformation system of *Beauveria bassiana* mediated by *Agrobacterium tumefaciens*. My Ph.D dissertation aims at investigating the infection mechanism of entomopathogenic fungi and improving their virulence by gene engineering. I will receive my degree this year, and am looking for a job related to biocontrol in future.
Weiguo Fang
E-mail: fangwguo@yahoo.com.cn

FUTURE MEETINGS AND WORKSHOPS

International Conference on the Molecular Biology and Biotechnology of Ciliates and Anaerobic Protozoa, March 4th to 6th, 2003 in Nijmegen, the Netherlands.

The congress will be accompanied by the annual meeting of the German Society of Protozoology and a meeting of the EC-sponsored programmes, ERCULE (www.ercule.com) and CIMES.

Please contact the Local Organisation Committee, Johannes H.P. Hackstein and Bart Penders for more information.

IOBC/WPRS working group "Microbial Control and Insect Parasitic Nematodes"
24-28 May 2003
Schoss Salzau, near Kiel, Germany
Information: Internet page with first announcement:
www.iobc.de

Contact:
Ralf-Udo Ehlers
Institute for Phytopathology
Christian-Albrechts-University Kiel
Dept. Biotechnology & Biological Control
Klausdorfer Str. 28-36
D-24223 Raisdorf/Germany
Tel.: +49-4307-839833, Fax: +49-4307-839834
E-Mail: ehlers@biotec.uni-kiel.de

4th International Workshop on Otiorhynchinae
11 - 14 May, 2003 Wageningen, The Netherlands for researchers working on root weevil species.

Organising committee:
Rob vanTol, Plant Research International, Wageningen-UR, The Netherlands
E-mail: r.w.h.m.vantol@plant.wag-ur.nl
Marian de Beuze, Applied Plant Research, Wageningen-UR, The Netherlands
E-mail: m.de.beuze@ppo.dlo.nl
The workshop will cover recent progress made in the approach of root weevil problems in agriculture and horticulture and include both basic and applied aspects. The purpose of the meeting is to bring together the international expertise from research and practice to promote discussions and exchange of ideas on this important group of insects. With the

extension from vine weevil (*Otiorhynchus sulcatus*) to all weevils in the subfamily Otiorhynchinae and to other related root weevils, we intend to improve and broaden our knowledge of this group of root weevil species.

Pre-registration for the meeting is now open. Pre-registration via e-mail (weevil@ppo.dlo.nl) or website (www.ppo.dlo.nl/weevil) is possible. The final announcement will only be sent to those who have pre-registered or responded by e-mail.

More information about the meeting can be found on our website (www.ppo.dlo.nl/weevil). All correspondence concerning the workshop should be addressed to:

Marian de Beuze,
Applied Plant Research
Nursery Stock Research Unit,
P.O. Box 118,
2770 AC Boskoop
The Netherlands
Phone: +31 172 236700, Fax: +31 172 236710
E-mail: weevil@ppo.dlo.nl, Website:
www.ppo.dlo.nl/weevil

again be available from Elsevier Science. The manual is an excellent resource for students and experienced researchers. Request ISBN 0-12-432555-6. US\$135/£83.95.

Ordering in the Americas, Asia and Australia:
Elsevier Science, Order Fulfillment Department,
11830 Westline Industrial
Dr., St Louis, MO 63146-9938, USA.
Tel: 1-800-545-2522
Fax: 1-800-535-9935
Email: custserv.ap@elsevier.com

Ordering in the UK, Europe and Elsewhere:
Customer Services, Elsevier Science, Foots Cray
High Street, Sidcup, Kent,
DA14 5HP, UK
Tel: +44 (0) 20 8308 5700
Fax: +44 (0) 20 8308 5702
E-Mail: cservice@harcourt.com

BOOK REVIEWS

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:

Dr. James Becnel, USDA/ARS, CMAVE
P.O. Box 14565
Gainesville, FL 32604 USA
Tel. (352) 374-5961
Fax. (352) 374-5966
e-mail: jbecnel@gainesville.usda.ufl.edu

Future SIP Meetings

SIP 2003
Burlington, Vermont; July 25-31

SIP 2004
Open, Probably Europe

SIP 2005
Open, probably USA

SIP 2006
China

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

PUBLICATIONS

The *MANUAL OF TECHNIQUES IN INSECT PATHOLOGY*, 1997, edited by L Lacey, will once

Entomopathogenic Nematology.

Edited by Randy Gaugler. 402 pages. ISBN 0-85199-567-5, CABI Publishing, 2002, US \$125.00.

More than seventy years ago, Rudolf Glaser discovered nematodes infecting white grubs and established the precedent for the fascinating development of entomopathogenic nematology. After a long embryogenesis, there was virtual research explosion during the 1980s in this field which was captured in part by publication of

“Entomopathogenic Nematodes in Biological Control” in 1990. The continuing growth and diversification of research approaches in the field mandated the publication of the current volume which contains a magnificent summary of this still accelerating field. The editor has brought together 28 leading scientists in entomopathogenic nematology and successfully extracted 17 chapters which are focused on the Families Heterorhabditidae and Steinernematidae and their bacterial symbionts. The chapters are topical, uniformly well written and edited. The quality of illustrative matter is high as is the overall quality of the typesetting and binding. This volume was dedicated to George O. Poinar, Jr., in honor of his tremendous contributions to entomopathogenic nematology.

The first chapter by Byron Adams and Khuong Nguyen (in “Taxonomy and Systematics”) introduces the general biology of *Heterorhabditis* and *Steinernema*, with an insightful analysis of the evolutionary origins of both genera. The authors then move to a comprehensive and thorough review of the molecular approach to nematode systematics and identification. Of special note is the carefully elucidated basis for name changes prepared according to the International Code of Zoological Nomenclature rules for endings of the species-group name. The taxonomy and systematics are presented effectively and dramatically through the use of SEMs of head and lateral field patterns and exquisite SEMs of isolated spicules in polytomous keys. This chapter concludes with the author’s current best estimate of the phylogenetic relationships within the Heterorhabditidae and Steinernematidae.

In “Biology, Taxonomy and Systematics of *Photorhabdus* and *Xenorhabdus*,” Noel Boemare reviews the virulence of the symbiotic bacteria in entomopathogenic nematodes, the monoxenic state of the nematode milieu, and symbiote diversity with an exhaustive list of the recognized bacterial species. Of special import is the analysis of the coevolutionary events in the development of the symbiotic interaction between *Photorhabdus-Heterorhabditis* and *Xenorhabdus-Steinernema* complexes.

Steven Forst and David Clarke (in “Bacteria-Nematode Symbiosis”) compare the bacteria-nematode symbiosis effectively with the well-established *Vibrio*-squid model of symbiosis. The chapter moves further into the molecular

mechanisms in the bacteria-nematode symbiosis, the role of formation of variants in the bacterial partners, and the genes involved in the interaction.

In “Virulence Mechanisms,” Barbara Dowds and Arne Peters review factors in establishment of parasitism: entry, interaction with host immune system, bacterial pathogenicity, and evolution. Many questions in these research areas are raised and perhaps in the next summary volume, these will have been addressed.

John Webster, Genhui Chen, Kaiji Hu, and Jianxiong Li (in “Bacterial Metabolites”) summarize the status of over 30 diverse secondary small molecular metabolites produced by bacterial symbiotes that have antimicrobial, insecticidal, anti-ulcer, anti-neoplastic, antiviral and other bioactivities that may be important in agro- and health sciences.

In “Biogeography,” William Hominick reviews the nascent state of the spatial and temporal distribution of entomopathogenic nematodes. Several tables provide critical references for the biogeography of Heterorhabditidae and Steinernematidae.

Dennis Wright and Roland Perry (in “Physiology and Biochemistry”) review physiological and biochemical attributes of the entomopathogenic nematodes, knowledge of which is essential to the future of genetic engineering of more effective biocontrol nematodes and symbiotes.

Itamar Glazer develops an important theme in “Survival Biology.” Expected survival is dependent on a wide assortment of abiotic factors which are considered and evaluated with directions for future research.

In “Natural Enemies and Other Antagonists,” Harry Kaya focuses on the antagonistic effects of interspecific competition between entomopathogenic nematodes and other biocontrol agents, natural enemies of entomopathogenic nematodes, and omnivore and scavenger effects on entomopathogenic nematodes. Such issues are of considerable import in the effectiveness of biocontrol agents and essential for the future development of population models.

Edwin Lewis (in “Behavioural Ecology”) points out that there is often a lack of concordance between

laboratory and field studies in many reports of potential biocontrol activity in entomopathogenic nematodes. The author maintains that this may be explicable through a thorough understanding of the behaviour of entomopathogenic nematodes which would in turn enhance the predictability of biocontrol potential. Lewis reviews the many advances in our understanding of infective juvenile foraging strategies and points out that much remains to be explored in dispersal mechanisms of infective juveniles and location in the milieu, as well as factors in discrimination of hosts and dynamics of infection.

In "Populations of Entomopathogenic Nematodes in Foodwebs," Donald Strong advances the foodweb concept beyond a simplistic linear trophic cascade to a more branched and complex model that includes competition in the foodweb. This is based on the author's seminal research on a natural population of *Heterorhabditis marelatus* related with a host moth larva on the roots of a native legume in California. This is an important and timely issue in the overall conception of natural control dependent on inoculative rather than inundative releases.

Ann Burnell (in "Genetics and Genetic Improvement") describes the current state of genetics in entomopathogenic nematode. She proceeds with the description of a program to exploit the *Caenorhabditis elegans* model to take the genetics of entomopathogenic nematodes to the next level.

In "Formulation and Application Technology," Parwinder Grewal explains why nematodes as biopesticides are plagued by poor storage and post-application survival problems relative to the general utility of chemical pesticides. Further focus on our knowledge gap in nematode biology is needed to resolve these issues.

Randy Gaugler and Richou Han (in "Production Technology") describe production technology from use of *in vivo* techniques to liquid and solid phase cultures. There is an excellent discussion of problems remaining in production and a call for further innovative approaches to reduce costs and improve efficiency. They emphasize that one of the fundamental issues impacting further research is the volatility of demand and potential returns for investors.

In "Regulation and Safety," Ray Akhurst and Kirk Smith describe thoroughly the regulations and bureaucracy regarding import of entomopathogenic nematodes into the United States. This chapter also reviews the issues related to bacterial and nematode safety and the situation related to non-target organisms.

David Shapiro-Ilan, Dawn Gouge, and Albrecht Koppenhofer (in "Factors Affecting Commercial Success: Case Studies in Cotton, Turf and Citrus") point out that, although the entomopathogenic nematodes are effective on a large number of insects, they have been marketed successfully for only a small fraction. The authors review three general crops, cotton, turf and citrus from a case study perspective. These examples of successes and failures are thoroughly analyzed with the end conclusion that economics is the over-riding factor in determining successful use.

In the final chapter ("The Biosys Experiment: an Insider's Perspective") Ramon Georgis provides a detailed insight into the first major commercial venture into entomopathogenic nematodes. It represents an incredible lesson on commercialization of biological materials and a reality check for the biocontrol enthusiast. This hard hitting review identifies the issues: "Limited market is attributed to a product cost, limited efficacy and host range in the field, ease-of-use, product stability and lack of information in their usage". The lack of a large market at this juncture apparently is fostering a distinctive small-scale cottage industry which may be the future nucleus for a renaissance for major commercial ventures in the future.

Basically, this is a 'must-buy' book for nematologists and specialists in biological control. In addition, it is essential that biological libraries acquire this volume in support of both instruction and research in biocontrol and biotechnology.

Edward G. Platzer

Dept. of Nematology

University of California

Riverside, CA 92521-0415

Ph. 909-787-4352, FAX 909-787-3719,

edward.platzer@ucr.edu.

Entomopathogenic Bacteria: from Laboratory to Field Application

Jean-Francois Charles, Armelle Delécluse
and Christina Nielsen-LeRoux (2000)
ISBN O-7923-6523-2

Kluwer Academic Publishers, Dordrecht, The Netherlands, 524 pp.

This extensive study of entomogenous bacteria is inevitably dominated by *Bacillus thuringiensis* (*Bt*) and by *Bacillus sphaericus* because they are both equipped with spores and toxins. These make them into potent pest control weapons readily stored until they are required for field use. This excellent book provides the first comprehensive multi-authored updating review of entomogenous bacteria for a decade, revealing exciting progress that contributes a large amount of knowledge into the general subject of bacteriology. These bacteria lead by far our range of microbial pesticides, which - according to one of the more optimistic among a wide variety of estimates - is projected to expand to at least 10% of the total pesticide market over the next few years.

The subject is now huge and inevitably required a multi-authored book. Quality of the book is assured by involvement of a substantial proportion of current world authorities. France provided many pioneers in the subject and contributes 11 out of the present 47 authors. Many other European authors are involved, as well as authors from developing countries, where the most severe of our pest and human disease problems lie. North Americans are less dominant than in previous publications from the 1960's to the 1990's. Six of the authors come from industry.

The book is organised into seven sections. Each section comprises one to five chapters, with a mean of 3.7. Bearing in mind that authors have had to be very selective from such a large body of information, I could find no substantial gaps in coverage. The sections progress from the basic bacteriology to the practical aspects of field application and industrialisation.

Basic bacteriology occupies the first three sections. Section 1 is a bacterial overview covering biodiversity, natural occurrence in insects, soil and phylloplane, also virulence. Section 2 is a critical, sophisticated, in depth review of the kingpin of the *Bt* group of bacteria - the δ -endotoxins and their genes, an area of particular progress. Section 3 covers in similar vein the parallel subject of modes

of action of these toxins, including toxin receptors and increase of cell permeability. A plausible theory is suggested for the origin of the toxins. A subject of increasing concern, resistance in pests to the toxins, is analysed while naming loss of a functional toxin receptor as the commonest cause. The basic studies in these first three sections set the stage for the descriptions of the more practical aspects in the rest of the book.

Moving on to practical aspects, Section 4 analyses safety in depth and updates current opinions about its status, although the subject also features in several other sections. The interrelated subjects of standardisation, production and registration are elaborated in Section 5. No easy answers are given to the vexed question of standardisation: I agree with the suggestions and conclusions. The description of large-scale, deep liquid fermentation is authoritative and concise alongside an inevitably tentative account of rural production. Registration remains expensive and complex, but there is a global drive to reduce requirements.

Section 6 assesses past, present and future application of *Bt* in agriculture, forestry and control of aquatic biting insects. It lists data on *Bt* use, products and formulations, giving penetrating analyses on factors that influence effectiveness and revealing intriguing differences in emphasis in the three application areas. Two chapters in Section 6 tackle the important topic of resistance in pests, its causes and management on land and in water. They recommend proactive resistance limitation plans (that start from the beginning of exposure) rather than reactive plans (that start after the appearance of resistance). They also recommend treatment by breaking the continuity of exposure by alternating *Bt* with other agents and control methods instead of mixing treatments in mosaic patterns. They point out that the best plans for microbial insecticides differ from the best plans for genetically modified plants. The final seventh section is devoted to biotechnology, risk assessment and future progress and limitations, including genetic engineering to improve strains and construct transgenic plants. The process of risk assessment and the factors that should be considered are clearly described.

Two key Sections, 4 and 7, review spates of discussion about safety that have arisen periodically from new information and events. I feel that it is vital to recognise the recurrent nature of many of these discussions. Initially in 1958 the registration

of the pioneer *Bt* microbial insecticide 'Thuricide' involved particularly thorough safety tests because the active ingredient was a live bacterium. Mammals and human volunteers were used. Major aspects concerned toxins, metabolites and a comparison with the potent mammalian pathogen *Bacillus anthracis*. Four anthrax spores injected intraperitoneally are able to kill a mouse, whereas 10^6 *Bt* spores are harmless. The initial mass of data was reviewed by authorities as eminent as E. A. Steinhaus. Later, comparisons were made with *Bacillus cereus*, which elicited even more exacting safety tests involving worst case scenarios and vertebrates other than mammals. Currently discussion centres mostly round the spraying of whole cities with *Bt* and the discovery of new strains. The following three main conclusions were drawn: 1. 'no study has clearly demonstrated a genuine risk to human health due to the use of *Bt*', 2. 'The long-term use of *Bt* in the environment appears to be safe' and 3. 'Finally, because of their exceptional safety, *Bt*-based products can play an increasingly major role in the field and environment.' A further conclusion concerned short-term effects on species related to target insects: these effects are regarded as negligible, but long-term effects of repeated applications of *Bacillus* entomopathogens on the species are relatively unknown. It is recommended that environmental risks should be assessed in comparison to no treatment at all and to workable alternatives such as the modern chemical insecticides. In any event, methods exist to nullify if necessary objections raised by worst case scenarios.

The new book, comprising 524 pages, costs 196 \$US, too expensive to use as a text-book. It is, however, essential reading for teaching in biological control, integrated pest management and general pest control and will be valuable for strategists and operators in agriculture, forestry and public health, while being rich in information in the major disciplines of biochemistry, microbiology, bacteriology, entomology and ecology. It has caught the spirit of the subject and looks far ahead, suggesting future research requirements.

The English language has some blemishes and is clumsy in places, an inevitable result of many authors not having English as their native language. The publisher should have provided an English copy editor. However, I found that the sense is always clear and that the book in general is very readable.

The general critical approach of the book is refreshing. Each chapter has a well-selected range of references. I would have liked a more extensive index.

H. D. Burges

21 Withdean Avenue, Goring-by-Sea, Worthing,
West Sussex BN12 4XD, UK

EDITORS' NOTES

Mark Goettel has served the Society for Invertebrate Pathology in many ways during the past years, not the least of which is his service as SIP Newsletter Editor for some 6 years, and Assistant Editor for the past 1 1/2 years. This will be his last Newsletter. As I've mentioned before, my taking on the responsibility as Editor would have been far more difficult (and a lot less fun) had Mark not been around to offer great advice and general hand-holding. I promised Mark that we would 'eventually' find a new assistant editor so that he could devote his time and skills to the journal 'Biocontrol Science and Technology', of which he is Editor-in-Chief.

The search for a new assistant editor was not hurried by either Mark or me. We have had a good and enjoyable working relationship with each other and with Peg Rotstein, SIP's Executive Secretary and all around expert on getting SIP news out to the members. But it is time to give Mark the break that he deserves and we have two new assistant editors waiting to take on the task of partnering the production of the Newsletter. Dr. Gernot Hoch of the Institut für Forstentomologie, Forstpathologie & Forstschutz, Universität für Bodenkultur, Vienna, Austria and Dr. Vince D'Amico, of the USDA Forest Service, Hamden, Connecticut, USA were selected and were appointed by SIP President Harry Kaya. They will begin assistant editor duties with the February, 2003 issue. Please join me in thanking Mark for his years as an excellent editor and welcoming Gernot and Vince to the fray!

Thanks, also, to Wendy Gerlenter, Mark Goettel, Gernot Hoch, Rich Humber, and Don Roberts for providing excellent photos from SIP 2002. You will be seeing them in the next 3 issues of the Newsletter, so if other members have some special shots to share, please send them in! Digital photos are

particularly welcomed for ease of processing, and please make sure to identify all persons in the photos so that we can print names.

Best wishes to all for the New Year,

Lee Solter
Editor



Here's to YOU, Mark!!

**TO DON ROBERTS
A SPECIAL HONOR FROM BRASIL**

After delivering all the tucans made out of Pau Brasil (wood from the tree called Brasil by the Portuguese and inspiration for the name of our country) to the 5K racers and other SIP members, the SIP 2002 Organizing Committee had planned a special honor for Dr. Don Roberts. The intention was to make a presentation to Don after the dancing began during the banquet, waiting for him to start dancing, as he is one of the best dancers among the SIP members. We had planned to stop the music and ask Don to come to the stage to receive his large tucan for his invaluable contributions to Brazilian Insect Pathology and Microbial Control. We discovered, however, that we were short of large tucans. Some of the members of the Organizing Committee decided not to announce the honor as planned, because it would not be adequate to do that without the availability of the large tucan to give to Don. An email was sent to Don after the event, explaining what happened and a large tucan was sent to him in September.

Why does Don Roberts deserve this special honor by the Organizing Committee of the SIP 2002? Through a project on Microbial Control of Insect Pests of Cowpea in the 1980's, Don initiated a new era in Brazilian Insect Pathology and Microbial Control by coordinating this project and bringing funding to the country to support research and training of researchers in Brasil and other Latin American countries. Through this project, several courses in insect pathology and microbial control were provided to Brazilians and other Latin Americans. Also, post-graduate programs were funded through the project to Brazilian researchers who are currently contributing significantly to insect pathology and microbial control in Brasil.

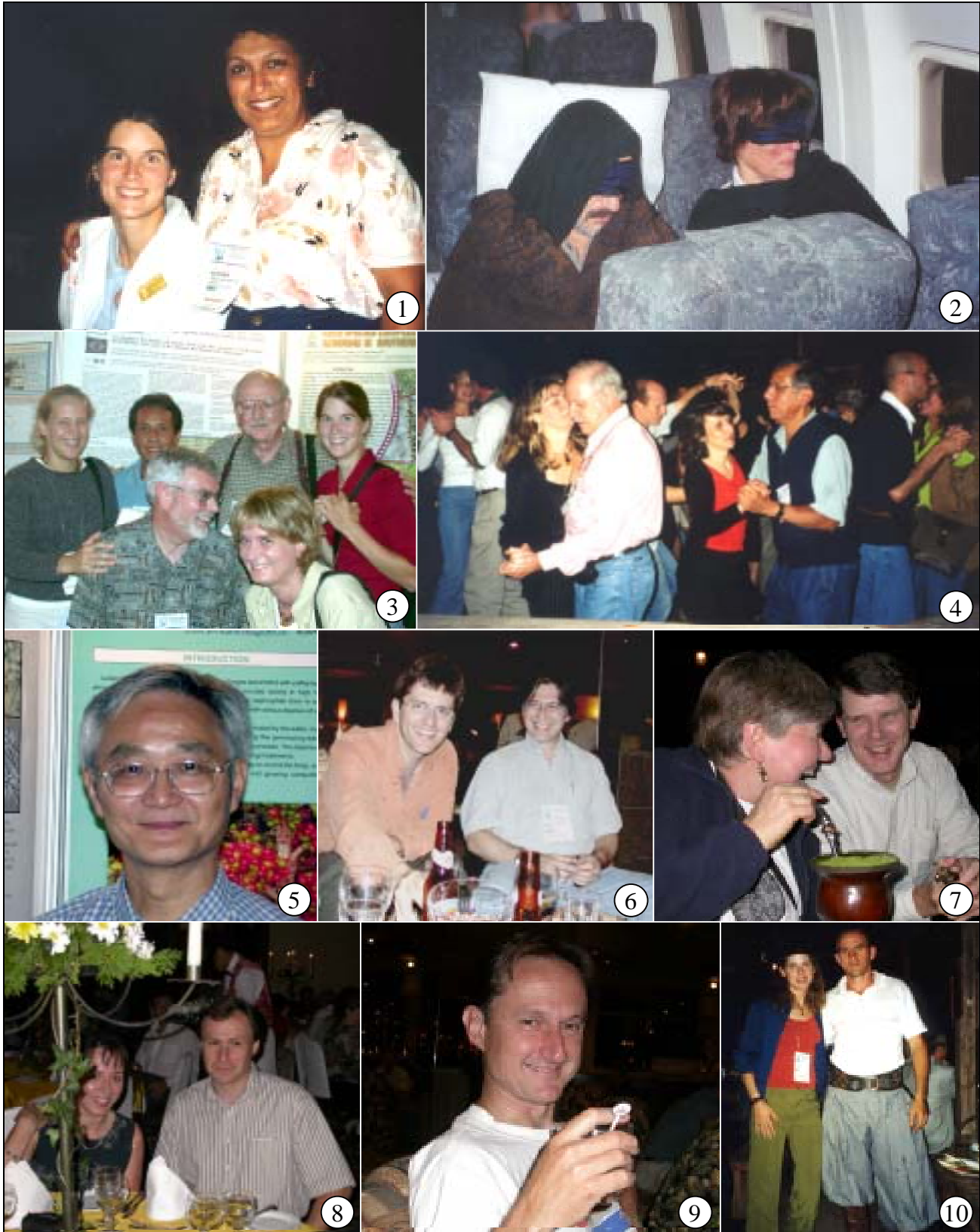
Under Don's leadership some important members of SIP spent a significant part of their lives in Brasil, such as Richard Daoust, Jeffrey Lord and Steven Wraight. Because of his contributions to Brasil, Don was elected an Honorary Member of the Entomological Society of Brasil, an honor conferred to very few foreigners. Because of his activities and relationships with Brazilian researchers, Don is certainly the member of SIP, as a "foreigner", to have come to Brasil the most times, 35 visits if we are correct. SIP 2002's honoring of Don Roberts, although simple, reflects the recognition of many people that benefited directly or indirectly from his important activities in Brasil. Don, thanks from all the Brazilians who had the privilege to know you as researcher and as a person. We love you!

The Organizing Committee for the SIP 2002



Don Roberts - Congratulations, Don!

Photos from Brasil



1. Christine Noronha and Colleen Alma 2. Sleeping beauties somewhere over the Amazon: Jean-Louis and Rosalind Schwartz 3. Poster people: Annette Bruun Jensen, Saul Mendez Sanchez, Don Roberts, Colleen Alma, Rich Humber, Charlotte Nielson 4. Dancing the night away at the Gaucho BBQ 5. Zengzhi Li 6. Italo Delalibera and Daniel Sosa-Gomez 7. Suzanne Theim, 2003-2005 SIP Treasurer and John Burand, 2003 SIP Meeting Organizer...laugh while you can, guys! 8. Patricia Stock and Albrecht Kopenhoffer wait patiently for dinner. 9. Ah, those caiparinhas! Rich French-Constant 10. Amando Brown and gaucho at the BBQ.