

Minutes Annual Meeting January 20, 2014

Respectfully submitted by Peter Krell (Vice President), on behalf of Patricia Stock (Secretary) who was unable to attend the Business Meeting.

Business Meeting Agenda, 10:30 to 12:30, August 15, 2013

1.	Welcome and Agenda Review	J. Eilenberg	10:30
2.	Scientific Highlights from last year	S. Jaronski and P. Krell	10:35
3.	In Memoriam	J. Eilenberg	11:00
4.	Minutes of 2012 Business Meeting	J. Eilenberg	11:05
5.	President's Report	J. Eilenberg	11:10
6.	Treasurer's Report	K. Hoover	11:20
7.	Auditor's Report	K. Hoover	11:30
8.	History Committee – Archiving issues	E. Davidson	11:35
9.	Meetings Reports	L. Lacey	11:50
	Buenos Aires, Argentina (2012) Pittsburg, Pennsylvania, USA (2013) Mainz, Germany (2014)	P. Stock N. Jenkins J. Jehle	
10.	Division Reports		12:10
	Bacteria Division Report Fungus Division Report Microbial Control Division Report Microsporidia Division Report Nematode Division Report Division of Diseases of Beneficial Invertebrates Virus Division	J.L. Jurat Fuentes H. Hesketh S. Jaronski C. Lange S. Hazir E. Genersch L.Pasarelli	
11.	New Business	J. Eilenberg	12:20
	Website By-law amendment	L. Solter J. Eilenberg	
12.	Adjourn	J. Eilenberg	12:30

The Business Meeting was called to order at 10:33 by President Jørgen Eilenberg.

1. Welcome and Agenda Review

President Eilenberg welcomed the attendees. He posted the agenda to the screen and reviewed it. The agenda was approved as presented.

2. Scientific Highlights

The Scientific Highlights was a new initiative following a suggestion at the SIP 2012 Business Meeting in Buenos Aires. The topics for the highlights were proposed by the Chairs of the seven Divisions and forwarded to Peter Krell and Stefan Jaronski who collated the material, prepared slides and presented the highlights during this business meeting.

Bacteria Highlights proposed by Juan Luis Jurat-Fuentes

Atsumi, S et al. 2012. Single amino acid mutation in an ATP-binding cassette transporter gene causes resistance to Bt toxin Cry1Ab in the silkworm *Bombyx mori*. Proc Natl Acad of Sciences USA 109:1591-1598

Chougule NP et al 2013. Retargeting of the *Bacillus thuringiensis* toxin Cyt2Aa against hemipteran insect pests. Proc Natl Acad Sci 110:8465-8470.

Diseases of Beneficial Invertebrates Highlights proposed by Grant Stentiford

Tran L et al 2013. Determination of the infectious nature of the agent of early mortality syndrome (EMS) affecting Penaeid shrimp. Disease of Aquatic Organisms. 105:45-55.

Fungus Highlights proposed by Helen Hesketh

Xiao G et al 2012. Genomic perspectives on the evolution of fungal entomopathogenicity in *Beauveria bassiana*. Scientific Reports 2:483 DOI:10.1038/srep00483 1 to 10.

Behie SW* et al 2012. Endophytic Insect-parasitic fungi translocate nitrogen directly from insects to plants. Science 336:1576-151577. * SW Behie was also the recipient of the SIP 2013 Martignoni award.

George, J et al 2013. Malaria mosquitoes attracted by fatal fungus. PLoS ONE 8:e62632. 1-8.

Microbial Control Highlights proposed by Stefan Jaronski

Commercialization by Marrone Bio Innovations of *Chromobacterium subsugae* for control of Lepidopteran and Coleopteran insects.

USEPA permits large-scale field tests of *Wolbachia* to control an insect.

Microsporidia Highlights proposed by Carlos Lange

Huang WF et al 2013. *Nosema ceranae* escapes fumagillin control in honey bees. PLoS Pathogens. 9:e1003185. 1-9.

Nematode Highlights proposed by Selcuk Hazir

Dillman AR et al 2012. An entomopathogenic nematode by any other name. PLoS Pathogens 8:e1002527 doi 10.1371.

Gatsogiannis et al. 2013. A syringe-like injection mechanism in *Photorhabdus luminescens* toxins. Nature 495:520-523.

Virus Highlights proposed by Lorena Passarelli

Chen YR et al 2013. The transcriptome of the baculovirus *Autographa californica* multiple nucleopolyhedrovirus in *Trichoplusia ni* cells. *J Virol* 87:6391-6405.
Burke GR et al 2013. Mutualistic polydnviruses share essential replication gene functions with pathogenic ancestors. *PLoS Pathogens* 9:e1003348. 1-14.
FDA approval of influenza vaccine “Flublock” developed by Biomedical Advanced Research and Development Authority (BARDA) and Protein Science Corporation.

It was suggested by Peter Krell and Stefan Jaronski that the highlights would be posted to the SIP Web Site (and perhaps published in the Newsletter), noting that such acknowledgment by the SIP could be viewed as an academic SIP recognition for the authors of the “highlighted” articles.

3. In memoriam (Jørgen Eilenberg)

It was noted that H. Denis Burges who was a SIP Trustee in 1978 and President 1984/86 and Albert E Pye as well passed away recently. It was moved by John Vandenberg, seconded by Peter Krell to include their names to the “In memoriam” section of the 2012 Business Meeting Minutes. The motion was passed unanimously.

There was a minute of silence in memory of the invertebrate pathologists, Albert E Pye (March 15, 2012), Denis Burges (Dec 13, 2012), and Clay McCoy (Oct 11, 2013).

4. Minutes of the 2012 Business Meeting (Jørgen Eilenberg)

President Eilenberg asked for approval of the 2012 minutes. With the addition of the names Denis Burges and Albert Pye to the in memoriam section, the Minutes of the 2012 SIP meetings were approved.

5. President’s Report (submitted by Jørgen Eilenberg)

President Eilenberg presented a long and detailed report in which he acknowledged the hard work and dedication of many members of the SIP to ensure the Society remains strong, international and relevant. He noted that the financial health of the Society is good much to the efforts of Kelli Hoover and Cecilia Schmitt. Membership now seems to be above the critical number of 450 but as always remains a challenge which Nina Jenkins as Chair of the Membership Committee is sure to overcome. The President acknowledged the efforts of Leellen Solter, Karen Edwards and Cecilia Schmitt in updating the now improved SIP Web Site. Thanks were also expressed for Newsletter Editor Eric Haas Stapleton and Publications Committee Chair David Shapiro-Ilan in developing the newsletter as a primary communications tool, now also accessible to non members. Betty Davidson and Wayne Brooks were acknowledged for their efforts in collecting and moving the SIP archives to a more permanent home at the University of Maryland, which, with the help of Lindsey Loeper at UMBC, will also be digitized. The Divisions, under the capable leadership of the Division Chairs are all doing well, always coming up with and coordinating various symposia, one of the strengths of the Society. The Meeting in Buenos Aires was considered a huge success all-round, attendance, challenging program, exciting social events (tango anyone) and even financially, making a good profit. Many thanks to Victor Romanowski and Alicia Sciocco-Cap and their local

team and Roma Gwynn, as chair of the Endowment and Financial support Committee for excellent fund raising efforts. The Pittsburgh meeting looks to be another excellent one, under the capable stewardship of Nina Jenkins and Kelli Hoover. New this year was the “Scientific Highlights” co-chaired by Stefan Jaronski and Peter Krell and presented at the beginning of the Business Meeting. As it was well received this is sure to be continued. Jimmy Becnel and the Founder’s Lecture Committee are to be congratulated on their choice of this year’s Founders’ Award Honoree and former SIP President Bob Granados and Founders’ Lecturer Gary Blissard. The SIP meeting in Mainz under the stewardship of Johannes Jehle is shaping up to be an exciting one, full of history, scenic lookouts and a gruelling 5 k run. The proposal drafted by Mark Goettel to hold the 2015 meeting in Vancouver BC was considered and at least one proposal to host the 2016 meeting was already received. Thanks to Lerry Lacey for ensuring venues were always available to host SIP. Nina Jenkins will be taking over the Meetings Committee portfolio. The Student Affairs Committee chaired by Gillian Hertlein and the Awards Committee chaired by Andreas Linde are credited with keeping students in the spotlight during and between SIP meetings. With the help of Leellen Solter a minor amendment to the Constitution was approved to allow emeritus membership to those with at least 5 years in good standing. This should help acknowledge invertebrate pathologists who changed their career later in life. The President acknowledged the help of the SIP Council including himself, Peter Krell as Vice President, Kelli Hoover as Treasurer, Patricia Stock as Secretary and trustees Regina Kleespies, Ed Lewis, Juan Luis Furat-Juente and Surendra Dara in providing direction and continuity of the Society. “It was always a great pleasure to always have them ready to support and take responsibility at any occasion.” Lee Solter, as Chair of the Nominations Committee, ensured nominations of others willing to continue in the proud tradition of former officers. Nominations are due to be publicized in the February Newsletter followed by an electronic ballot. The President mentioned the SWOT (Strengths, Weaknesses, Opportunities and Threats) which he organized. For all of SIP’s strengths there still remains the challenge to maintain or increase membership. This could in part be achieved by reaching out to those who might not yet consider themselves invertebrate pathologists and to widen the geographic reach of the Society through, for example, region specific SIP ambassadors. He offered a special thanks to Cecilia Schmitt, executive secretary, for her efficient and smooth way to solve problems and in running the daily business of the Society.

6. Treasurer’s Report (Kelli Hoover)

Kelli reviewed the report. As of April 30, 2013 there was a \$152,661 balance in the ING savings account and \$76,396 in checking with an overall 2012 to 2013 increase of \$25,633.49. Kelli reported that there was a discrepancy of \$288, to the Society’s benefit, owing largely to problems in currency exchanges with Argentina and trying to follow cash flow. The SIP meeting in Buenos Aires earned a profit of \$18,037, quite remarkable considering that credit card charges amounted to just over \$8,400. Part of the financial success of that meeting was also due to efforts by Victor Romanowski and Alicia Sciocco in raising in excess of \$41,544 in sponsorship from Government and Industry. Overall, the Society is in good financial health.

Because of the difficulty in differentiation of meeting specific expenses and disbursements from other SIP activities (all within the same bank account), Council recommended having a separate bank account specific to meeting expenses.

7. Auditor's report (Kelli Hoover)

The Auditors' report from Sassan Asgari and Karyn Johnson was dated 24 July 2013, addressed to Patricia Stock as Secretary of the SIP. Kelli reported that the auditors for the accounts for the SIP for fiscal year May 1, 2012 to April 30, 2013 found the accounts to be in order. They acknowledged that the balance was off by \$288 as indicated in Kelli's Treasurer's report but accepted that under the circumstances this imbalance was reasonable.

8. History Committee (Betty Davidson)

Betty acknowledged the help of the members of the History Committee. She also acknowledged the great help of Wayne Brooks for maintaining an archive of SIP materials, particularly Newsletters, and some photos at Carolina State University. Wayne indicated to Betty that he no longer wished to have this responsibility. Much of the material missing from Wayne's collection was available from Betty's own archives. The print material was mailed to the Kuhn Library and Gallery Special Collections at University of Maryland Baltimore County MD (UMBC). Lindsey Loeper of UMBC will help in the archiving, scanning and digitization. SIP contributed some funds to this archiving effort. Betty requested photos (and names), especially for the inaugural meeting in 1968. The digital archives is accessible at <http://contentdm.ad.umbc.edu/cdm/landingpage/collection/p16629coll5>

Betty indicated that she thought it was time for someone else to take the helm of the History Committee but also generously agreed to stay in the saddle until a replacement is found.

9. Meetings Reports

Buenos Aires, Argentina 2012 (Kelli Hoover for Patricia Stock on behalf of Alicia Sciocco)
The 2012 Meeting report from Alicia Sciocco and Victor Romanowski indicated a total of 311 delegates including 73 students and representing 34 countries with 41% coming from Latin America. There were 169 oral presentations and 170 posters, in addition to a special talk by Karl Maramorosch during the SIP Business Meeting. The organizers were able to raise \$41,544 from Government and local sponsors which helped defray local meeting expenses. These contributions led in part to a profit of \$6,095 for this meeting. Thanks in part to the efforts of Roma Gwynn an additional \$26,000 was raised from other, mostly biocontrol, companies.

Pittsburgh, Pennsylvania 2013 (Nina Jenkins)

Nina Jenkins reported that there were about 360 delegates of which 66 were students and representing 29 countries. There were 191 oral presentations and 133 posters. Nina brought up the question of whether the Society should invest in its own laptop(s) and projectors to avoid paying the high rental fees charged by various venues.

Mainz Germany 2014 (Johannes Jehle)

Johannes gave a spirited presentation of the venerable Gutenberg University, the venue for the August 3 to 7, 2014 Mainz Germany meeting including its geography, history and a 1,000 year-old cathedral. He has reserved 400 economical rooms in different hotels in Mainz (without needing to provide a deposit). Mainz is easily accessible by air at Frankfurt am Main Airport and via the many highway and train lines within Europe. The University is easily accessible by many public buses and tramways. A boat trip is planned for the Rhein River from Mainz to Sankt Goar, near the famed Lorelei sculpture mid river and passing through some many scenic sites and twists and turns. Following the boat trip, the Barbeque

and 5 km race would be held at the Burg Rheinfels (with change rooms at the nearby Hotel Rheinfels, the caterer for the Banquet). The Banquet will be held in the Alte Lokhalle, a heritage monument for locomotives. The Chair and co-chairs will be Johannes Jehle and Tom Hankeln. Information from SIP2014@jki.bund.de

Future Meetings

The SIP Meetings Committee has accepted for recommendation the proposal from Mark Goettel to host the 2015 meeting Aug 9 to 13 in Vancouver Canada. Vancouver is in easy reach within North America and Asia, as well as via direct flights from Europe. The University of British Columbia campus is an ideal venue with many accommodations. A mixer at the Museum of Anthropology on the UBC campus is anticipated along with a Salmon BBQ nearby on a ridge overlooking the Vancouver coast line. This recommendation was accepted and Mark was instructed to take on the role of Local Organizing Committee Chair.

Lawrence (Lerry) Lacey, after a long tenure as Chair of the Meetings Committee, has decided to let someone else take on the role. His contributions were gratefully acknowledged by a round of applause. It was also announced that Nina Jenkins would take over the Chair position of the Meetings Committee with the help of others on the committee.

10. Division Reports (Division Chairs)

Bacteria Division (Juan Luis Jurat-Fuentes)

Juan Luis reviewed the report indicating the Division has 66 regular, 45 Bacteria Plus* and 17 student members (total of 111). A balance of \$2,769 as of June 1, 2013 was reported for the Division. For 2013 to 2015, Baltasar Escriche became the new Chair, Ken Narva was elected as Chair Elect, Raffi Aroian as Secretary Treasurer and Yu-lin Gao as Member at Large. A student representative has yet to be elected. They propose a Divisional Symposium on "New protein structure-function of bacterial insecticidal proteins" organized by Ken Narva and Colin Berry and a Cross-Divisional symposium on "Molecular mechanisms associated with host pathogen ecology" organized by Christina Nielsen-LeRoux. *Bacteria Plus members pay an additional \$5.00 for membership in the Division.

Diseases of Beneficial Invertebrates Division (Elke Genersch)

Elke reviewed the report noting that the Division has 26 regular and 16 student members. A fiscal year balance of \$2,008 was shown. Kelly Bateman was elected as the Chair Elect to serve until 2014. The DBI Division is exploring hosting a symposium on Pathogen discovery in aquatic invertebrates, organized by Grant Stentiford and Lyric Bartholomay; a workshop on "Major pathogen groups in farmed and wild aquatic invertebrates", organized by Kelly Bateman and possibly a joint symposium on "Biology of major bee pathogens", organized by Elke Genersch, Lena Poppinga and Not Yet Nominated.

Fungus Division (Helen Hesketh)

This division has 105 regular and 15 student members. A fiscal year (April 30, 2013) balance of \$2,804 was reported for this division. Tarryn Goble was elected as Member at large, and Joanna Fisher and Chad Kyser both as student representatives for 2013-2015. The Fungi Division discussed hosting a symposium on "Endophytic associations of entomopathogenic fungi with plants: incidence and importance?" suggested by Don

Roberts and one on “Aspects of chemical ecology related to entomopathogenic fungi” coordinated by Ingeborg Klingen. Roma Gwyn suggested a Cross-Division symposium with the Microbial Control Division on “Field assessment of the benefits of microbial control agents” which was supported by Stefan Jaronski, the outgoing MCD chair.

Microbial Control Division (Stefan Jaronski)

The MCD has a membership of 156 regular and 15 student members and a fiscal year April 30, 2013 balance of \$6,010. Leon Rabinowich is to assume the Chair position, Michael Brownbridge was elected as Secretary Treasurer, Pasco Avery as Member at Large and Patricia Golo as Student Representative. Election of a Chair Elect is still outstanding. For 2014, the Division proposes hosting the Divisional Symposium on “MPCA Regulatory situation in EU” organized by David Grzywacz and a Cross-Divisional Symposium (with Fungus Division) on “Efficacy testing guidelines” organized by Roma Gwynn and Stefan Jaronski.

Microsporidia Division (Carlos Lange)

The Microsporidia Division has 40 regular and 7 student members, with an April 30, 2013 balance of \$3,245. Shajahan Johny was elected as member at large for 2013-2015. The topic “Microsporidology: Advances in Europe” was chosen for a Division Symposium at Mainz. A workshop on “Microsporidia in ecology including feminizing or male-killing effects of certain Microsporidia”. Also discussed was an OECD symposium for Vancouver on “Emergence of new parasites and pathogens from organisms from different environmental habitats”.

Nematode Division (Selcuk Hazir)

The Nematode division reported 51 regular and 12 student members with an ending fiscal year balance of \$3,134. Fatma Kaplan was elected as a Member at Large and John G McMullen as student representative for 2013 and 2015. The following topics were suggested for Divisional Symposia in 2014. “Above and below ground interaction, root-shoot interaction, chemical signaling”, “Case studies: moving from lab to application, adapting your lab data to the field and vice versa” and, “Evolution of parasitism in Nematoda”. A Cross-Divisional Symposium on “Use of invertebrate pathogens for teaching” and a workshop on “New Techniques and Technologies” were also suggested.

Virus Division (Lorena Passarelli)

The Virus Division has 90 regular members and 23 student members with an April 30, 2013 balance of \$4,058. The division elected Elisabeth Herniou as Member at Large and Yasumasa Saito as student representative both for 2013 to 2015. For 2014 the Division is suggesting a Divisional symposia, on “Small non-coding RNAs as regulators of insect host-pathogen interactions and immunity” organized by Sassan Asgari, a Cross Divisional one on “Horizontal gene transfers within insect meta- or holo-genomes” organized by Elisabeth Herniou and Monique van Oers and a Pan Divisional (open to all) one on “Regulation/registration and biosafety of biocontrol agents” organized by Just Vlak and Johannes Jehle.

11. New Business

Web Site (Leellen Solter)

Lee reported that, with the design help by Karen Edwards and Nancy Oliver at the University of Illinois, the new Web Site is up and running. In addition to a face lift it also boasts easy to use interactive links. Lee credited much of the work to Cecilia Schmitt who received a loud round of applause for her efforts.

Lee also credited Eric Haas-Stapleton for his work and in taking over as Newsletter Editor.

Amendment to the SIP Constitution (Jørgen Eilenberg)

Having recognized that some members join the SIP later in their career, perhaps due to a change in research interests to invertebrate pathology and that access to the electronic newsletter poses no cost to SIP, Leellen Solter suggested to change the requirement for emeritus membership from the current 20 consecutive years in good standing to 5 consecutive years. In this way more members could be recognized for their contributions to the Society. Consequently the following Amendment to the Constitution of the Society for Invertebrate Pathology, was voted on by electronic ballot, and adopted at the regular business meeting of the Society in Pittsburg, Pennsylvania, August 15, 2013.

(The following supersedes the original language in Article III, Section 4 of the SIP Constitution and does not affect numbering of any sections or articles.)

Section 4. Emeritus Members. A Full Member in good standing for at least 5 consecutive years, if retired from regular and remunerative professional work, shall be eligible to apply for emeritus status. Charter Members and Founding Members in good standing, if retired from regular and remunerative professional work, shall be eligible to apply for emeritus status without regard to length of membership. Emeritus Members shall be exempt from the payment of membership dues and shall have all the rights of Full Members.

Other Business (Jørgen Eilenberg)

Stefan Jaronski informed those in attendance that John Henry, a well-known insect pathologist in the 70s and 80s is alive and well. Now in his 80s he is continuing in his interests in invertebrate pathology, but more as a hobby. John sends his greetings to all SIPers. Leellen sent similar greetings from Joe Maddox who is also thriving in retirement.

12. Adjourn (Jørgen Eilenberg)

The meeting having come to its timely conclusion at 12:30, it was moved by Stefan Jaronski and seconded by Elke Genersh to adjourn. The motion was supported unanimously and the President declared the meeting closed.