



**Minutes of the Diseases of Beneficial Invertebrates (DBI) Business Meeting
15th August 2018**

Meeting was chaired by Helen Hesketh.

Item 1. Opening, welcome and approval of the Agenda

Agenda was approved.
Minutes from the 2017 division meeting were approved.

Item 2. Division Updates & Finances

Current Membership DBI

Membership has remained stable over the last few years. Members are again asked to ensure their membership is current and kept updated; remember to renew your membership fees when they are due.

	2013/2014	2014/2015	2015/2016	2016/2017	2017/18
Regular Members	27	26	35	40	28
Students	12	18	17	12	17
Total	39	44	52	52	45*

* 51 as of 13th August.

Division regular membership fees are to remain the same, \$10. Members are asked to remind students that membership to this division is free and to encourage students to apply for the travel awards. This year we had no suitable applicants and so the funds were diverted to cover invited speaker awards.

Finances DBI Division: Fiscal Year 2018 (May 1, 2017 – April 30, 2018)

The balance in the DBI's account at the close of FY 2017 was \$2668.21. In addition to this, SIP Council agreed to provide \$4000 to support student travel awards and invited speaker awards for the meeting in San Diego. The Division spent \$6,668.21 in 2017 (including \$300 being returned to General Fund).

This year the division has spent \$2,000 on invited speakers and it is expected that the fiscal year will finish with a balance of \$2495.77.

START BALANCE 2017	\$2668.21
Allocated for San Diego 2017 meeting from Council	\$4000.00
Balance for spend at SIP 2017	\$6,668.21
Student Travel Awards (x2 @ \$850 for 2017)	\$1700.00
Division Speaker Awards (x2 @\$1000 for Pathobiome symposium speakers for 2017)	\$2000.00
Returned monies to General Fund	\$300.00
Division Balance after SIP 2017	\$2668.21
Interest	\$7.56
Division Dues	\$320.00
Transfer from General Fund to Division for SIP 2018	\$1500.00
Total available for SIP 2018	\$4495.77
Student travel awards (none – no eligible applications)	\$0.00
Symposium invited speaker Awards (x2 WSSV cross-divisional @\$750) An additional speaker will be funded for \$500 from Virus Division	\$1500.00
Symposium invited speaker Award (x1 Bee Health @\$500)	\$500.00
Division Balance after SIP 2018	\$2495.77

Item 3. Meetings Reports

San Diego Meeting 2017

SIP 2017 was the 50th Golden Jubilee Anniversary of SIP meetings and was held at the University of California, San Diego Campus, La Jolla, California, 14th-18th August 2017. There were approximately 353 participants and 33 companions in attendance. There were 216 oral presentations (169 regular member, 47 student), 104 posters (86 regular member, 18 student), 10 divisional and cross divisional symposia and the 2nd Ag Innovations Conference was held prior to the start of the meeting.

DBI contributed the following:

- Kelly Bateman and Elke Genersch provided an overview of the division, and highlighted research in the area over the last 50 years as part of the Founders Lecture
- A cross-divisional symposium with the Virus Division was organised by Kelly Bateman and Martin Earlandson on “Honoring Just Vlak”. This involved 7 invited speakers, giving short presentations:
 - Martin Erlandson – Just Vlak – impact and international collaboration on invertebrate virus research
 - Kelly Bateman – DNA viruses of aquatic invertebrates
 - Gary Blissard – Entry mechanisms of large DNA viruses of Insects (BV)
 - David Theilmann – Entry mechanisms of large DNA viruses of Insects (ODV)
 - Linda King - Recent advances in biotechnological applications of baculoviruses 'including vaccines and gene therapy'
 - Rose Hu - Basic research -supporting the development of baculoviruses as biopesticides
 - Johannes Jehle - dsDNA Viruses of Invertebrates - Taxonomy and Phylogeny
- A Divisional symposium organised by David Bass and Helen Hesketh on “The Pathobiome concept: an emerging view of microbes and disease” involving 4 invited speakers
 - David Bass (Cefas/The Natural History Museum) - The pathobiome concept: an emerging view of microbes and disease
 - Ronny van Aerle (Cefas) - Characterization of pathobiomes using high-throughput sequencing: Challenges and opportunities
 - Nancy Moran (University of Texas) - Effects of the gut microbiota on susceptibility to pathogens in social bees
 - JP Dundore-Arias (University of Minnesota) - Competitive interactions and disease suppression in soil microbiomes
- There were two contributed paper sessions with 14 oral presentations, 5 of which were from students.

Gold Coast Meeting 2018

SIP 2018 was held on the Gold Coast in Australia, 12th – 16th August 2018. There were 258 participants and 24 companions in attendance, the week being split into 8 divisional and cross divisional symposia and a workshop on “Protein specificity and its impact on safety and resistance”.

DBI contributed the following:

- Divisional symposium was organised by Helen Hesketh and Elke Genersch on “Health Issues of Bee and Non-bee Pollinators”. This involved 5 presentations and included one of the invited speakers:
 - John Roberts – Viral landscape of *Varroa*-free Australian honey bees

- Laura Brettell – The role of deformed wing virus (DWV) in *Varroa* tolerant honey bee populations and its spread beyond bees into the wider insect community
 - Diao Chunsheng – A natural product inhibited the replication and expression of Israeli acute paralysis virus
 - Diao Qingyun – Enhancement of chronic bee paralysis virus levels in honeybees acutely exposed to imidacloprid: a Chinese case study
 - John Roberts – Evidence of deformed wing virus (DWV)-free honey bee population in the Pacific region.
- A cross-divisional symposium with the Virus Division was organised by Kelly Bateman and Just Vlcek on “White Spot Syndrome Virus – Emergence and Control”. This involved 4 presentations and included three of the invited speakers:
 - Jie Huang – Overview of WSSV and its emergence
 - Peter Mohr – White spot disease outbreak in farmed prawns in Queensland, Australia in 2016
 - Ornthuma Itsathitphaisarn – Potential future therapies for WSSV
 - Kelly Bateman – Wild type relative of the most important viral pathogen in global aquaculture
- There were two contributed paper sessions, one of which was shared with Microsporidia and the second shared with Viruses. There were 11 presentations and 9 posters.

Valencia, Spain, SIP 2019

Next year the meeting will be held in Valencia, Spain, 28th July – 1st August 2019. The meeting will be shared between SIP and the International Organisation for Biological and Integrated Control (IOBC). The IOBC meetings usually take place when the SIP meetings are held in America, it is a unique opportunity to join the two meetings. This will involve a shared programme and organisation of events; however, SIP symposia will be run as usual and members should not really notice the difference. There will be more student awards and there will be an option to join IOBC on registration and all participants can publish extended abstracts in the IOBC Bulletin.

The meeting will be held at the Palau de Congressos Conference Centre, excursions are to be confirmed but the 5K run will be held in Turia gardens (an old river bed), the BBQ at Jardins de la Hacienda and the Banquet will be held at a restaurant on the beach. Transport is very easy from Valencia airport, participants can catch trains from Madrid and Barcelona airports. There will be a range of accommodation options available to participants.

SIP Early Career Award

This year we were proud to announce that the Early Career Award was awarded to a member of the DBI, Kelly Bateman. This was in recognition of the significant contributions Kelly has been in the emerging field of crustacean virus taxonomy and the pivotal role she has in improving our understanding of the impact of emerging pathogens in the global aquaculture industry. Kelly also provides considerable support to the SIP through her numerous officer roles for DBI and in her role on the editorial board of the Journal Invertebrate Pathology. Monique van Oers presented the award.



Item 4. Division Travel Awards

Students

DBI offered two student travel awards of \$1000USD and \$750USD respectively. As in previous years, it was agreed that these would be preferably from one aquatic and one terrestrial research areas (dependent on applicants). The DBI officers considered the 2 applications received, but agreed that neither sufficiently met SIP Guidelines for student awards as their content was not sufficient to “*pertain to topics in invertebrate pathology and/or microbial/biological control.*” Relevant applications were sought from other Divisions but none were available. There are no 2018 student awards for DBI.

Invited Speakers

From Virus Division: \$500 USD: Peter Mohr (CSIRO Australian Animal Health Laboratory)

White spot disease outbreak in farmed prawns in Queensland, Australia in 2016

From DBI: \$750 USD: Jie Huang (Yellowsea Fisheries Research Institute, P.R. China) Overview of WSSV and its emergence.

From DBI: \$750 USD: Ornchuma Itsathitphaisarn (Centex Shrimp & Department of Biochemistry & Department of Biotechnology, Mahidol University, Thailand) Potential future therapies for WSSV.

From DBI: \$500 USD: Laura Brettell (Hawkesbury Institute for the Environment, Western Sydney University) The role of Deformed wing virus (DWV) in *Varroa* tolerant honey bee populations and its spread beyond bees into the wider insect community.

Item 5. Election of new officers

DBI Committee

DBI members would like to thank all the committee members past and present for their contributions to the division. This year the committee was looking for fresh representatives for most of the positions, as highlighted in red below:

Helen Hesketh	Chair	2016-2018
Mark Freeman	Chair Elect	2016-2018
Kelly Bateman	Secretary	2016-2018
Ronny van Aerle	Member-at-Large	2017-2019
Annette Bruun Jensen	Member-at-Large	2016-2018
Georgia Ward	Student representative	2016-2018
Kelly Bateman	Past-Chair	2014-2016
Elke Genersch	Past-Secretary	2014-2016

The Chair had requested nominations prior to the 2018 meeting, these nominations were discussed and agreed, the new committee is below:

Mark Freeman	Chair	2018-2020
Grant Stentiford	Chair Elect	2018-2020
Helen Hesketh	Secretary	2018-2020
Ronny van Aerle	Member-at-Large	2017-2019
Kelly Bateman	Member-at-Large	2018-2020

Thomas Gillard	Student representative	2018-2020
Nicole Atherley	Student representative	2018-2020
Helen Hesketh	Past-Chair	2016-2018
Kelly Bateman	Past-Secretary	2016-2018

Item 6. Report on Council Meeting

Helen Hesketh gave an overview of the SIP Council Meeting.

- The Council will award \$3000 to each division for the 2019 meeting to be used for Division travel awards
- There is now a SIP Flyer available to publicise the society, members and Ambassadors are requested to download and use these flyers.
- The student committee suggested that students are given time to give a minute introduction to their posters during poster sessions. It was not clear how that would work so students are asked to discuss and bring ideas to Council. suggestion that students be given the option to present posters
- The Early Career Award will continue so members are requested to nominate eligible members.
- The Youtube contest will be promoted again next year as well as alternative options such as photography competitions.
- The society would like to encourage members to send articles for the newsletter are encouraged to members are requested to send any relevant newsletter stories to Jean Louis Scwharz (jean-louis.Schwartz@sympatico.ca)

Item 7. Business items for discussion

Plans for 2019 Meeting

Ideas for travel awards and possible symposia and workshops were discussed.

- Student awards - It was suggested that the division offers two awards again and that the award should pay \$400 towards early bird registration and \$450 for travel, total award \$850.
- Divisional Symposia - Helen Hesketh and Grant Stentiford have agreed to organise the divisional symposia "Emerging diseases in invertebrates as one health sentinels"
- Cross-divisional to be decided after the meeting email.

Miscellaneous

Members are requested to submit suitable images to represent the division.

Kelly Bateman

1st October 2018