

Fumigants & Pheromones

Fumigation Service & Supply, Inc.



Jordan Rivera

Fumigation Workshop Recap

The 13th meeting of the Fumigants & Pheromones Conference may be but a memory for some, but for others, I hope it left a lasting impression. The days were filled with experts from their fields, sharing and passing on their knowledge to others.

The day was filled with breakout sessions that encouraged open dialogues between attendees and presenters.

What started as discussions and presentations ended with an excellent opportunity to take those “classroom lessons” and apply that knowledge in real world scenarios.



Grain storage facilities at the site of the Fumigation Workshop

I had the distinct honor and privilege in spearheading the workshop operations. From start-up to tear-down, from concept to reality, I was involved in one way or another and loved it. It gave me a great vantage point for the day. I was able to witness everyone participating in the day’s activities and see the “light-bulb” effect of attendees understanding the techniques and concepts presented. I live for these types of moments. I spent some of my college years as a teaching major in the

army where I oversaw instructing emergency medicine to my company...so you could say that I get a sense of elation when I get to witness those “light bulb” moments. Those moments are why we, FSS, Inc. and Insects Limited, focus on the fine details of the conference, because we believe in the power of knowledge and education!

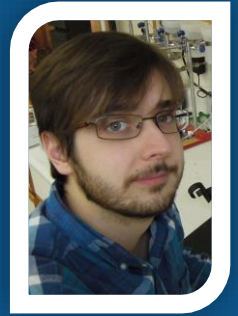


Attendees closely watch a presentation on remote rodent monitoring at the 13th Fumigants & Pheromones Conference workshop

Great sponsors (Douglas Products, UPI, Dow AgroScience, Central Life Science, and many more), FSS staff, the gracious folks over at Fischer Seeds, all came together to put on a great day of training. It was personally a lot of work and I may have greyed my hair prematurely...but it was well worth it... and more importantly, education is worth it! Here’s to looking ahead to 2020 and Fumigants & Pheromones going to Zimbabwe!!!

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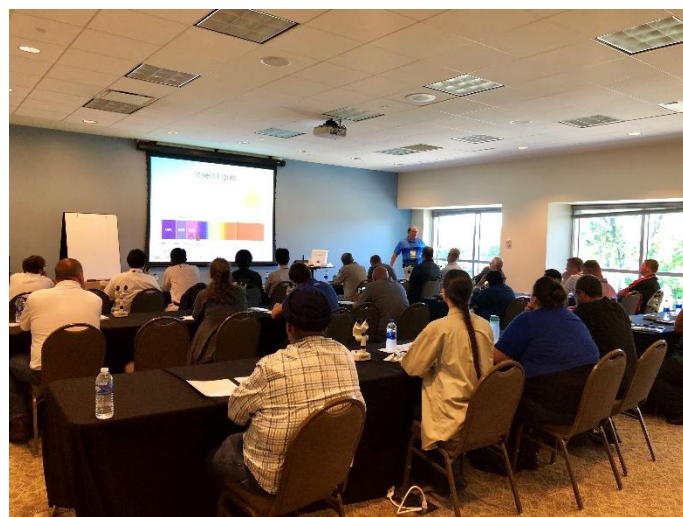


James Feston, M.S

Museum Pest Workshop Recap

Museums deal with protecting objects every day. For a museum, losing an object to insect damage is potentially losing a piece of cultural heritage. Fortunately, museum staff members and pest management professionals across the world are working hard to safeguard our most important museum objects.

For 25 years, Insects Limited has specialized in museum IPM while teaching museum staff and PMPs to do the same. As part of that commitment to education, Insects Limited recently held a Museum Pest Workshop during the 13th Fumigants & Pheromones Conference held in Indianapolis June of this year.



Pat Kelley of Insects Limited (USA) teaching the Museum Workshop attendees about Museum Pest Management.

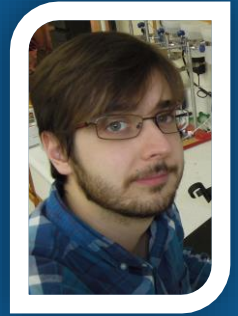
A collection of 30 museum professionals, scientists, and PMPs attended a 6-hour workshop to learn more about insect issues in museums and archives. Topics

included principals of museum IPM, how to identify common (and some not so common) museum pests, best practices in prevention, and the ever-popular “Cases of the What Dun It.”



Photo credit: Rachael Perkins Arenstein - Students identify museum pest insects under a microscope during a 2013 AIC IPM workshop

Pat Kelley, the instructor for the course, has amassed a unique collection of example cases of damage over the years. These cases include objects that were once part of a collection but now serve as educational tools and a reminder of the importance of museum IPM. As a team, groups worked together, with a damaged museum object, to piece together the information about the situation from the perspective of the PMP or museum professional on the case. They knew a large taxidermy collection space was showing unexpected drugstore beetle activity. A series of pheromone and light traps were used to narrow down the search until specific objects could be isolated. By drawing from what



James Feston, M.S.

Museum Pest Workshop Recap

they had learned from the workshop and their own experience, the teams saved the day by piecing together the story of a lone, drugstore beetle infested, porcupine before the problem spread to the rest of the collection.



In the "Case of the Pesty Porcupine", attendees were given the backstory of a situation involving a mysterious infestation of drugstore beetles

which often consist of natural materials at risk for insect damage.

With a full group of attendees and an engaging schedule this year's workshop was a great success. We look forward to the next museum IPM workshop and an opportunity to continue to educate PMPs and museum professionals about how to protect the most important objects in our lives and others'.

Following the classroom portion, the group participated in a walking IPM tour of both the Indiana State Museum as well as the Eiteljorg Museum of American Indians and Western Art in downtown Indianapolis. Participants had the opportunity to see first-hand, the collections of two great Indianapolis museums and their IPM programs. The tour focused on the high-risk areas for insect infestation in each museum. The state museum has an impressive collection of taxidermy mounts which are monitored closely (to avoid infested porcupine incidents), and the Eiteljorg has an extensive collection of Native American artifacts

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David Mueller

Sharing Through Education



The purpose of this conference is to share through education. Professor John Osmun of Purdue told his class that we should “*Educate rather than regulate*”. Forty-five years later there are conferences and continued education programs scattered around the country.



2018 Fumigants & Pheromones Conference attendee group photo.

The 13th Fumigants & Pheromones Conference focuses on stored product protection. This could be from the time commodities leave the field to the time it reaches the consumer. This biennial conference is offered in various locations around the world. (Lübeck, Bologna, Chicago, York, Copenhagen, Indianapolis, Thessaloniki, Monterrey, Bremen, Krakow, and Adelaide). This offers a variety of speakers and attendees that come every two years to share their skills and ideas. This year the

conference was held in our home town of Indianapolis. Francie Hinrichsen and Casey Vollmer were the event coordinators.

Indianapolis 2018 was special. It celebrated 25 years of meeting and sharing through education. It is always memorable when each individual stands and tells the audience their name, company and country they came from. In all, over 180 people from 23 countries were present. The two days of lecture and supplier displays was held in the Indiana Historical Museum. A record number of suppliers displayed innovative technologies in fumigation and pest management.

A selection of world class speakers offered their research from a laboratory and practical application. The list of invited speakers includes: Steve Yaninek, David Mueller, George Opit, Jürgen Böye, Spencer Walse, Tom Phillips, Michael Doyle, Paul Fields, Quinn Schroeder, Tom Mueller, Pat Kelley, Jim Campbell, Simon Ball, Jeff Waggoner, and Alistair Morton.

The conference dinner was held at the National Collegiate Athletic Association (NCAA) headquarters in downtown Indianapolis. The after-dinner speakers were 11-year-old Kayla Zu and her teacher Maggie Samudio. They were responsible for the selection of the Indiana State Insect and the presentation reflected on this sometimes-difficult process. Through the persistence of Kayla and her class, the Say’s Firefly was chosen to represent the State of Indiana to the rest of the United States and the world. It took several years of letter writing campaigns and pressure on politicians, but the outcome was a positive one for everyone involved.

The highlight of the conference has evolved the last 25 years. It is the International Singing Competition. Here each country selects a song from their country and

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performs it. Some countries perform native songs and Japan broke out Justin Bieber for their selection. The winner was Dr. George Opit from Oklahoma State University/Uganda. The audience votes for the finalist with their applause.

One of the reasons that this 13th Conference was held again in Indianapolis is that people have asked for more practical workshops. Here in our hometown, it is possible to provide them.

This year there was two workshops on the third day. Pat Kelley took a group of attendees behind the scenes of two museums to see how pest management can be proactive in controlling pests in priceless collections. Jeff Waggoner and Pete Mueller bused 150 people to a local food and grain facility to carve out six different fumigation and pest management hands-on demonstrations. People learn from doing, and this workshop offered plenty of new ideas and techniques to control pest populations in structures and stored products.

At the end of the conference an announcement was made for the location of the next conference in two years. Keith Delpont from Delpont's Fumigation Company located in Harare announced that Victoria Falls, Zimbabwe has been selected as the site of the 2020 conference.

Victoria Fall is a UNESCO site and one for the seven wonders of the world. This will be the conference's first time to be held in Africa.

Below are a few photos highlighting the 2018 Fumigants & Pheromones Conference. To see the entire photo gallery, visit <http://bit.ly/Fumigants-Pheromones-Conference2018>



Conference attendees mingling and visiting the vendor booths in between lectures at The Indiana State Museum.



David Mueller of Insects Limited (USA) presenting the 2018 Wendell E. Burkholder award to Jim Campbell of USDA (USA).

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Alistair Morton of Arctic Systems (Denmark) speaking about innovative technologies in rodent control.



Pete Mueller of Fumigation Service & Supply (USA), Henrik Lange of Arctic Systems (Denmark), and Jeff Waggoner of Fumigation Service & Supply (USA) catching up together during a break.



Jim Campbell of USDA (USA), Tom Mueller of Insects Limited (USA), and Pat Kelley of Insects Limited (USA) leading a panel discussion on pheromones.



The 2018 Fumigants & Pheromones speakers enjoying an evening out together at the Indianapolis Indians baseball game.

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Pat Kelley of Insects Limited (USA) teaching the Museum Workshop attendees about Museum Pest Management.



Keith Delpont of Delpont Tobacco Beetle Exterminators (Zimbabwe) and David Mueller of Insects Limited (USA) announcing at the gala dinner that the 14th Fumigants & Pheromones Conference will be at Victoria Falls, Zimbabwe in the spring of 2020.



Jeff Waggoner of Fumigation Service & Supply addressing the Fumigation Workshop group.



Casey Vollmer of Insects Limited (USA) presenting to Insects Limited's international distributors.