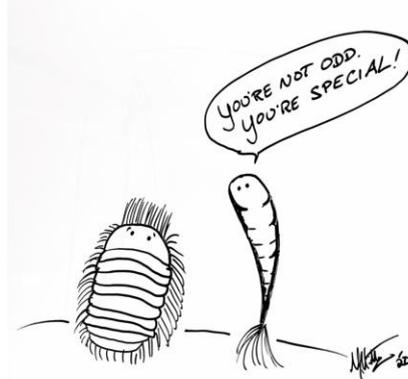


MuseumPests.net

Integrated Pest Management for Cultural Heritage

**1st Public
Presentation
Session
2021
WELCOME!**



Good afternoon and welcome to the MuseumPests Working Group's first Public Presentation Session!



Before we launch into our lightning round of short presentations we wanted to take a few minutes to introduce ourselves and our resources to you all.

The MuseumPests Working Group, which is the name for the collective group behind the website, began with an informal collaboration in 2002 between a couple of institutions. Since then, we've grown to encompass hundreds of participants worldwide who meet annually to create the resources that are shared on the MuseumPests.net website.

MuseumPests.net
A Product of the Integrated Pest Management Working Group

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MISSION STATEMENT

The mission of the MuseumPests Working Group is to promote and facilitate best practices in pest management for the collections and cultural heritage communities through the development and on-line distribution of training materials and other resources.

<https://museumpests.net/about-us/about-us-our-mission/>

Our participants include entomologists, collection managers, registrars, curators, conservators, scientists, pest management professionals, facility managers and vendors – basically many of the roles actively working on IPM in cultural heritage institutions. Our goal is to collaborate in advancing our own IPM work while helping others. We are not a membership group. People participate at our meetings or contribute content to the website.

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Pest Control Red Zone
 Highly sensitive area
 No food or drink
 No plants
 No pets allowed
 No book bags
 Publicly Museum Pest Control Committee

Prevention



Monitoring



Identification



Solutions

AND MORE!

Content from Conferences and Meetings

Health & Safety Info

Training and Outreach Resources

FAQs

Our site is organized in order to provide the user easy access to all the different components of Integrated Pest Management.

2021 Update

IDENTIFICATION - PEST FACT SHEETS

Click here to preview our new Pest Fact Sheets

The Pest Fact Sheets are an easy to read, single page handbook for the most common museum pests as determined by a survey of professionals in cultural heritage institutions. Each sheet includes the following:

- general information
- identification images
- signs of infestation
- food sources
- life cycle
- treatment options
- bibliographic references on the information collected for that particular sheet.

Thumbnail Image	View Fact Sheet	Common Name	Latin Name	Additional Info
		American Cockroach	<i>Periplaneta americana</i> (Linnaeus)	
		Black Carpet Beetle	<i>Attagenus unicolor</i> (Shoemaker)	
		Bed Bug	<i>Cimex lectularius</i> (Linnaeus)	
		Black Larder Beetle	<i>Dermeestes ater</i> (De Geer)	
		Book Lice or Psocids	Liposcelis spp.	

MuseumPests.net

A Product of the Integrated Pest Management Working Group

Casemaking Clothes Moth *Tineola pellionella* (Linnaeus)

IDENTIFICATION

DIAGNOSTIC MORPHOLOGY

Adult:

- Body and wings are colored buff to golden with a brownish tinge
- Three dark spots on each wing
- Wings are long and narrow
- Head wings are fringed with long hairs
- W: 1.5 mm; wingspan: 1.8 - 2.2 cm

GENERAL INFORMATION

Tineola pellionella is worldwide in distribution. The common name of casemaking clothes moth comes from the fact that the larvae will carry a silken case with it throughout the entire larval stage and it finally uses the same case to pupate in. The case consists of silken material produced by the larvae interwoven with fibers from the material it is feeding on. As the larva grows, it will enlarge the case by making a slit on both sides of the case and inserting complete sections of new material. In this case (adults) it will increase the length in the case by adding new material to either end. If the case is extended from the larva's body, it is not possible it will die. The larva will dig the case with its 6 feet. It will then use its head and downward legs and pull the case along with it. Immediately prior to pupation, the larva will often work a protruded one inch in a crevice, wall or other the ceiling of the room of the infestation.

DIAGNOSTIC MORPHOLOGY (continued)

Immature Stage:

- Pale yellow in color when hatched
- As it grows it turns more white with brownish head
- Larva will always carry its silken case

The casemaking clothes moth is distinctly separate if attached at all.

FOOD SOURCES

The food sources for this pest are varied. Potential foods could be any fiber material, woodens, eggs, fish, hair and fur (This includes animal remains and fur garments). It is reported that it will also feed on spores, silicates, hemp and skins.

LIFE CYCLE

The general female moth will lay 37 - 48 eggs usually over potential food sources. The eggs will hatch in 4 - 7 days. The larval stage builds a case of silk which it enlarges as it grows. The larval stage will last from 46 - 87 days. Prior to pupation, the larva will often migrate to a protected area to pupate. The whole pupation period will last 9 - 20 days. The adult moths will only live 4-6 days. The males will be active flies working out the females, which generally remains stationary. A typical population will have 3 - 4 generations per year.

CONTROL & TREATMENT

Standard control and treatment methods for museum pests will generally control this pest.

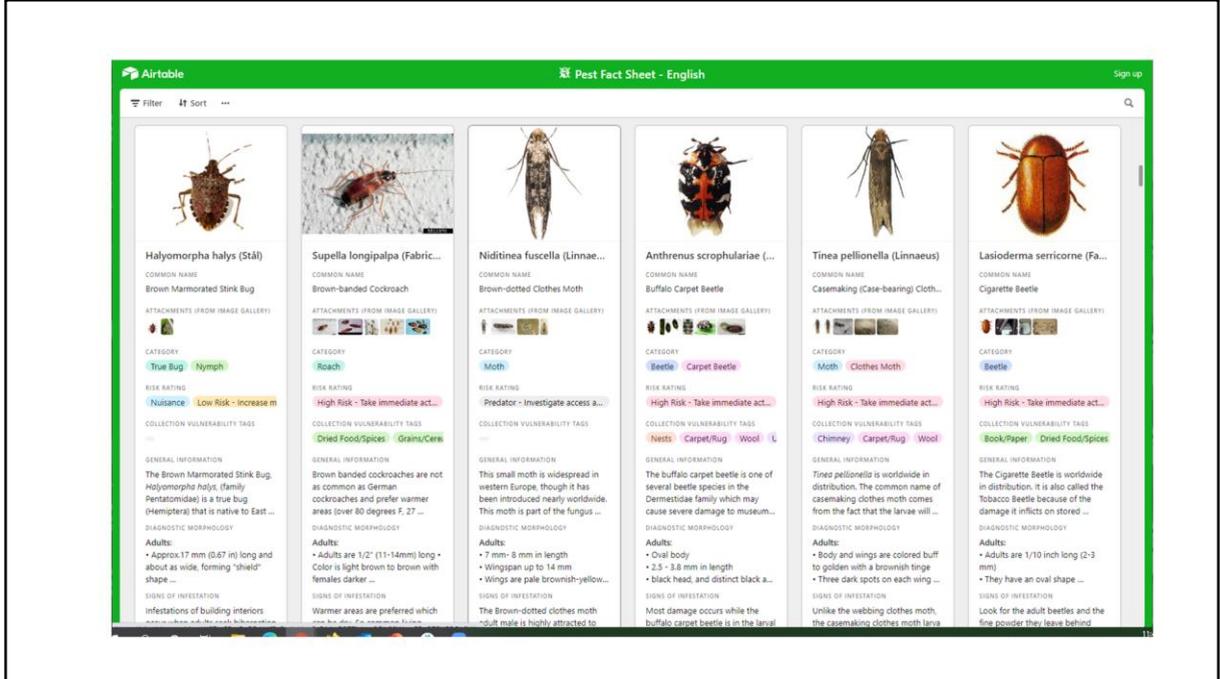
Signs of Infestation

Unlike the webbing clothes moth, the casemaking clothes moth larvae will usually spin a web on the material on which it is feeding. The larva of the *Tineola pellionella* will feed in a random pattern over its food source, pulling its case behind it. The amount of damage done to the material is based directly on how much time it spends in any one location. Feeds prefer fibers from the feeding larvae will drop beneath the material or fall into folds and creases in the textiles, tape and fur. The case for the pupating moths will often be attached to the wall or ceiling around the infested material. Sometimes the pupal cases will be attached to the material itself by a silk thread produced by the larva. Where webbing clothes moths (*Tineola bisselliella*) will often migrate their pupal cases into the fabric or fur that it feeds upon, the case for

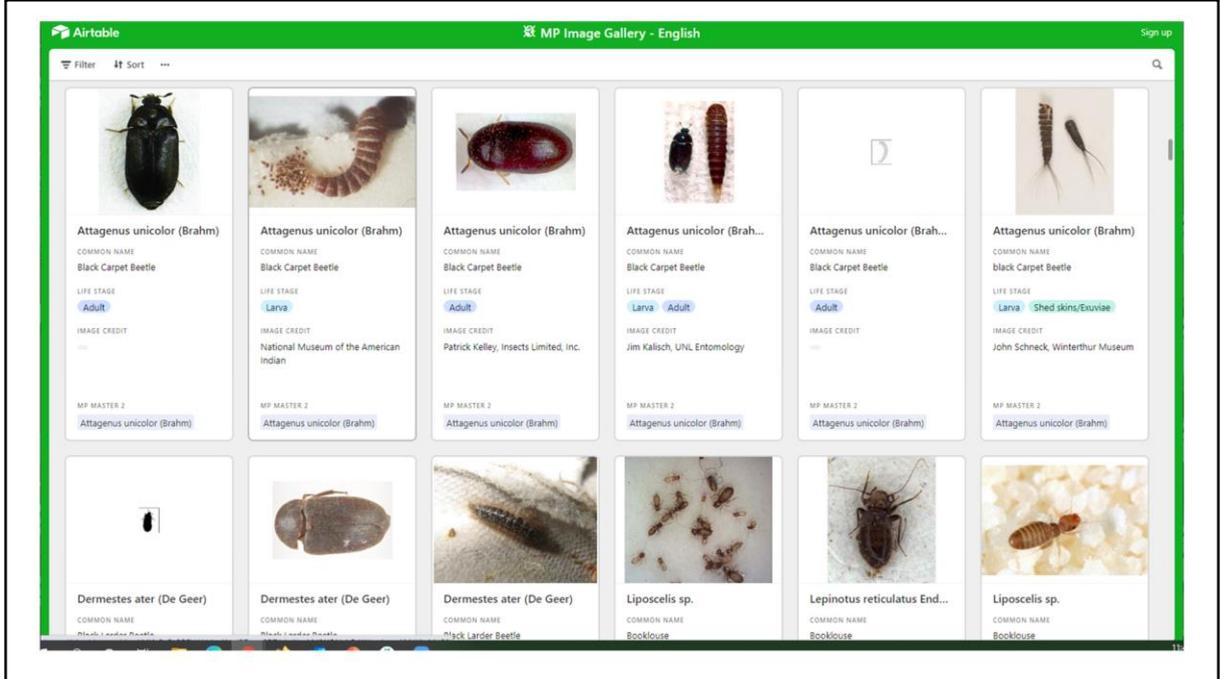
Photo Courtesy of: Tineola, Inc.

Information current as of 23 March 2019
For more information visit www.museumpests.net

One of the most viewed sections of our website is Identification which contains our Pest Fact Sheets and Image Gallery. Not a huge surprise when a good bit of time with IPM is spent ensuring proper identification and figuring out what and why.



We took a step this year into a new, dynamic format! Easy to filter and sort, allowing for the user to find the suspect pest.



This new format is also used for our updated Image Gallery. We are still transitioning so this is a work in progress. We hope you will bear with us as we improve this new resource.

Two Ways to Contribute to MuseumPests



The screenshot displays the MuseumPests.net website. The header features the logo "MuseumPests.net" with a pest icon, and the tagline "A Product of the Integrated Pest Management Working Group". A navigation bar includes links for HOME, PREVENTION, MONITORING, IDENTIFICATION, SOLUTIONS, RESOURCES, CONFERENCES, FAQ, BLOG, ABOUT US, and CONTACT US. The left sidebar contains a menu with items like "HISTORY OF IPM", "JOIN THE PESTLIST", "ABOUT US", "FAQ", "MUSEUMPESTS.NET FUNDRAISING APPEAL", and "RECENT POSTS". The main content area is titled "MUSEUMPESTS.NET FUNDRAISING APPEAL" and includes a paragraph about the group's history and a "Select amount" section with donation options: \$50 Psocid (Liposcelis spp.), \$100 Bed Bug (Cimex lectularius), \$250 Clothes Moth (Tineola bisselliella), and \$500 Bronze Shieldbug (Trollius loricatus). A small inset image shows the "2006 Home Page" of the website.

The MuseumPests Working Group began 19 years ago; from our initial 2002 meeting with seven people, we have now grown into a worldwide network to support the needs of museum, library, archive and historic house staff who strive to implement integrated pest management procedures and protect their collections from damaging pests. As we approach the 20th anniversary for our group, we hope you will consider showing your support for MuseumPests and ongoing work by participants across the world. Please consider a donation that is meaningful, as based upon your budget.

Created in 2006, our initial website was envisioned as a way to share information with our group's participants and was seen as an internal product. By 2008 site analytics indicated access by a far wider audience, and our focus became more outward facing. Recognizing that we needed a professional website to support the resources being developed, we asked the preservation community for support; many groups, institutions, and companies responded with generous donations that funded the first professional re-design of MuseumPests.net.

The site is now in need of a refresh. New funding is sought to help update the digital infrastructure of MuseumPests.net to support some of these exciting projects:

- 1. Translations** – A group of dedicated volunteers across the world have recently completed translation of the website into Spanish and will launch with our 2021 Virtual Meeting. Additional translation efforts are underway. ***Funding will help support the work involved in connecting these sites so they can pull from a common image and pest fact sheet library and support growth of non-English language contributions***
- 2. Security** – No one is surprised that security breaches on websites are a major concern; given the speed at which these threats develop, ***maintaining the site as a secure asset requires frequent updates, backups and more time from our devoted Webmaster.***
- 3. Server space** – As our image library and other resources grow and with the addition of the foreign language companion sites, ***MuseumPests requires additional server space; funds will be used to ensure continuity of the site.***

Statistics clearly demonstrate our growth:

- In 2006 we averaged 500 unique visits per month. In 2021 we saw over 2,100 per month.
- Our PestList began with 130 participants. This list now includes over 800 participants across the globe.
- We started with 12 Pest Fact Sheets and insect ID images on our site. We now offer 53 Fact Sheets and 125 vetted ID images.
- Our initial website offered 12 pages of IPM related content. Today we have over 110 pages of content created by our participants.
- We offer hundreds of pdf downloads of unique content.

While our website and resources are free – server space is not! Our goal is to raise \$12,000.

All funds will be used to support the development and functionality of the MuseumPests Working Group's two primary products: the website and our PestList. Sponsors will be recognized on our About Us sponsor page, in social media and blog posts, and will be acknowledged at our annual working group meeting. For more about MuseumPests and the sponsors who have supported us in the past, please see the [About Us page](#) on our website.

To make a donation please use our [Online Donation form](#) or, to donate by check, please contact MuseumPests Working Group co-chairs at Chair@museumpests.net. You can also support [MuseumPests with fun merchandise](#). Profits on purchases will support the website. Check out the hoodies, shirts, totes, and masks with our new anatomically correct pest logo. Fun for the whole IPM team!

DONATE ONLINE

<https://givebutter.com/MuseumPests>

Givebutter

MuseumPests Website & PestList 2021 Update

Support the cultural heritage IPM community by funding a trusted resource

MuseumPests.net

\$2,315 15 supporters

\$12,000 goal

Fundraise



Select amount

\$50 Psocid (*Liposcelis* spp.)

\$100 Bed Bug (*Cimex lectularius*)

\$250 Clothes Moth (*Tineola bisselliella*)

\$500 Bronze Shieldbug (*Troilus luridus*)

\$1,000 Silverfish (*Lepisma saccharina*)

\$2,000 Golden Beetle (*Charidotella bicolor*)

\$ Other

Continue

We hope that if you find the site and programs like these valuable you will visit our online donation page and make a donation at an amount that is comfortable for you.



Here's a QR code to quickly take you to the donation page.

Purchase merchandise for your pest management team!

MuseumPests.net
Integrated Pest Management for Cultural Heritage

[Shop](#) [Cart](#) [Checkout](#)  



Black Baseball Cap
\$15.00



Hammer T-Shirt(Black or White)
\$14.00 - \$15.00



Heathered Navy Fleece Zip Hoodie
\$23.00 - \$27.00



Ladies V-Neck Black Tee
\$14.00 - \$17.00



Navy Face Masks
\$7.00



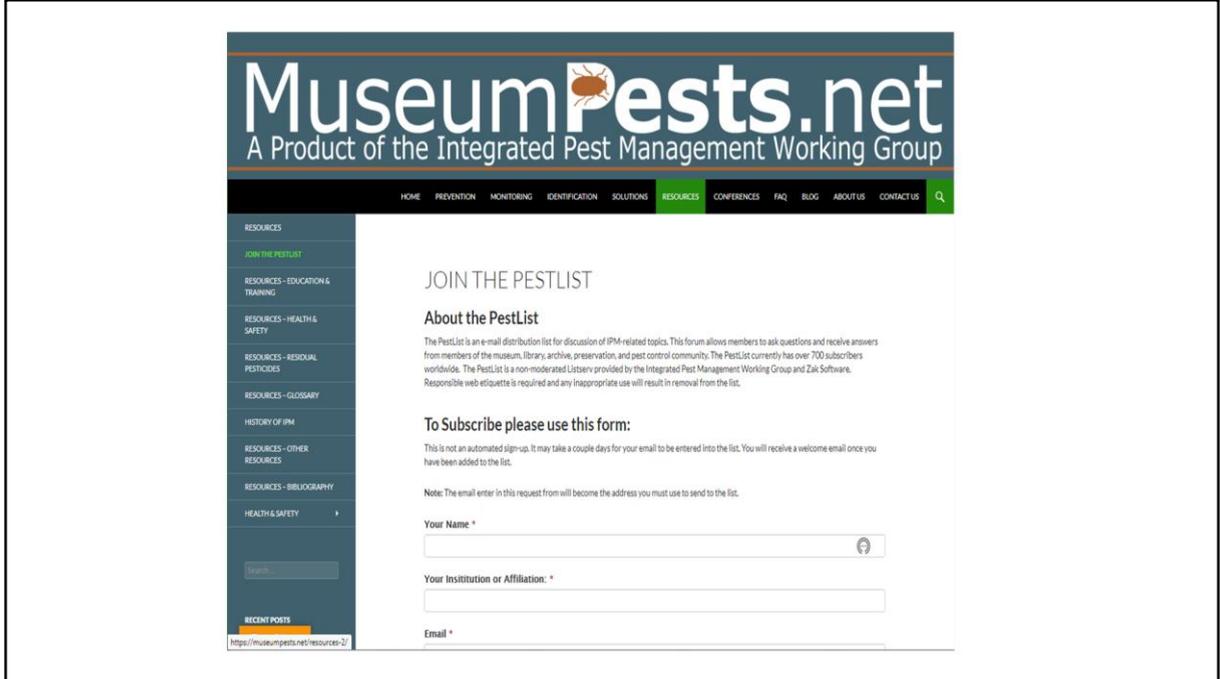
Steel Grey Polo
\$20.00 - \$23.00



Two Tone Navy Tote Bag
\$17.00

<https://museumpests.viatraninc.com/>

Alternatively, you can purchase some MuseumPests merchandise for your IPM team. All profits from these purchases will support the website upgrades that are planned for this upcoming year.



If you don't already know about it, one of our other most valuable resources is the PestList. The PestList e-mail distribution list has grown from 11 users to over 800 participants across the globe. Joining the PestList is the easiest way to keep abreast of future programs and activities. You can follow us on Facebook, Instagram and YouTube. We look forward to hearing from you.