

Cultural Institutions IPM Overview

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History of IPM

- ▶ Prior to WWII chemicals with heavy metal compounds (lead, mercury, arsenic) used to preserve collections.



History of IPM

- ▶ Rise of nerve gasses during WWII led to rise of organic compounds used for pest management .
 - ▶ Exp. DDT



History of IPM

- ▶ Users soon found themselves using larger amounts of the compounds as insects became resistant to. Soon led to a chemical crisis culminating in the formation of the EPA in 1970.

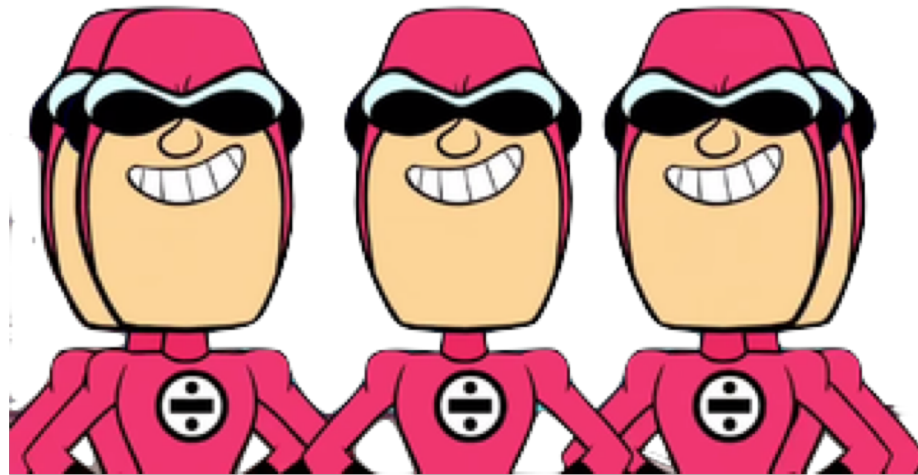


History of IPM

- ▶ From Museumspests.net:
 - ▶ The term *Integrated Pest Management* was first used in agriculture beginning in the 1970's in response to growing knowledge about the negative side-effects of pesticide overuse. The approach emphasized the integration of pest biology and cultural practices in controlling insect pests in crops.

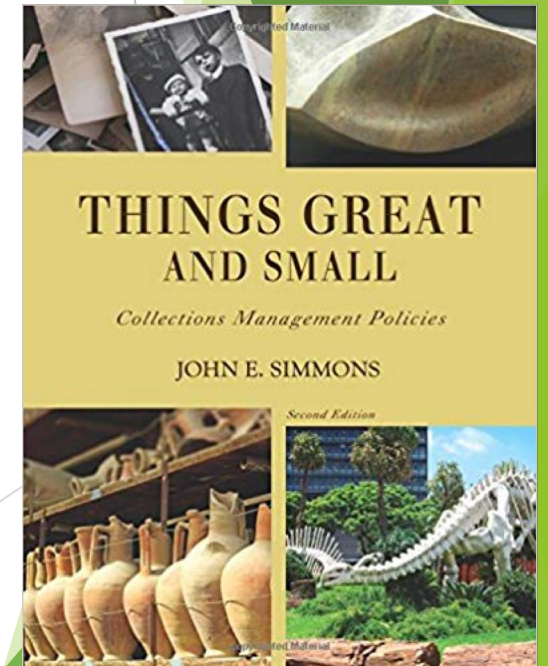
What is Integrated Pest Management?

- ▶ There are many different definitions of just what Integrated Pest Management is.



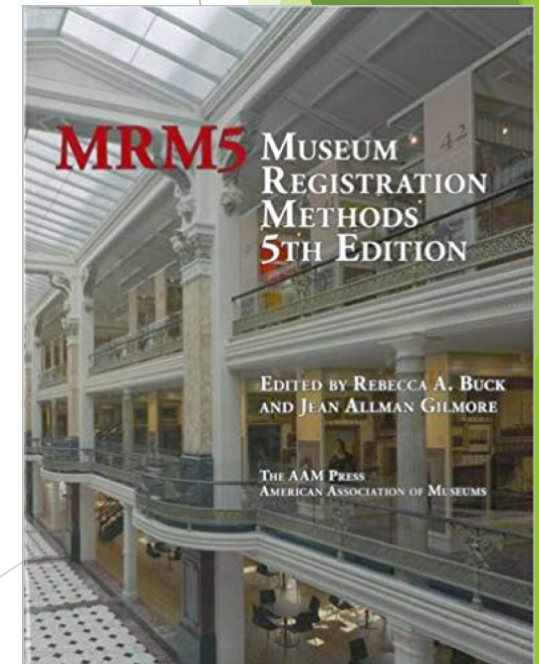
What is Integrated Pest Management?

- ▶ From Things Great and Small : Collections Management Policies by John Simmons
 - ▶ Integrated Pest Management requires the museum to commit staff time and resources to prevent pests from reaching the collection, monitor the collection for the presence of pests, and use non—toxic means to control pests when possible.



What is Integrated Pest Management?

- ▶ From Museum Registration Methods 5th Edition edited by Rebecca A. Buck & Jean Allman Gilmore
 - ▶ Chapter 6F by Albert Greene and Nancy L. Breish
 - ▶ “Modern pest control has evolved into a complex, specialized discipline that is often termed IPM. Those responsible for implementing this process should be aware of three principal objectives:
 1. Protection of Property
 2. Protection of Health and Safety
 3. Legal compliance



What is Integrated Pest Management?

► From Wikipedia

► Museum integrated pest management is the practice of monitoring and managing pest and environmental information with pest control methods to prevent pest damage to collections and cultural heritage.

► https://en.wikipedia.org/wiki/Museum_integrated_pest_management



WIKIPEDIA
The Free Encyclopedia

What is Integrated Pest Management?



A screenshot of a tweet from Amy Crossman (@Crossman_AmyL) posted on October 29, 2018, at 5:29 AM. The tweet is part of the #PrevCon18 series and discusses Integrated Pest Management (IPM) in cultural heritage organizations. The text states that IPM is a common practice worldwide, described as a safe, ethical, and co-ordinated approach to preventing insect pest damage to collections. It notes that basic principles can be applied across different collection types. The tweet has 4 retweets and 13 likes. The interface includes a 'Follow' button, a dropdown arrow, and icons for replies, retweets, likes, and direct messages.

Amy Crossman
@Crossman_AmyL

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#PrevCon18

1 Integrated Pest Management (IPM) is common practice in cultural heritage organisations [worldwide.It](#) is a safe, ethical&co-ordinated approach to preventing insect pest damage to collections the basic principles can be applied across collection types

5:29 AM - 29 Oct 2018

4 Retweets 13 Likes

4 13

Pest Control and Cultural Institutions

- ▶ Prevention
- ▶ Monitoring
- ▶ Identification
- ▶ Treatment
- ▶ Hazards

Pest Control and Cultural Institutions

► Prevention

- Strive to minimize or eliminate the resources that pests need to enter or live in a particular area.



Pest Control and Cultural Institutions

► Monitoring

- Builds awareness of what pests are present in your building, understanding trends, and tracking where pests tend to congregate.



Pest Control and Cultural Institutions

► Identification

- By identifying pests you can solve problems that invaders have caused to your collections.



Pest Control and Cultural Institutions

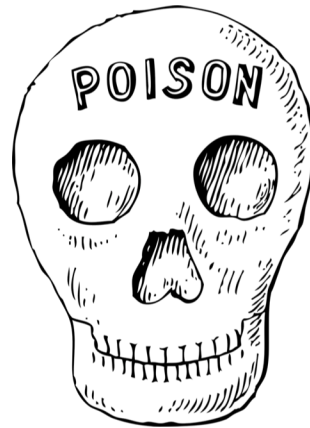
▶ Treatment/Solutions

- ▶ How to treat infestation will depend on identifying the pests and just how large the infestation has become (storage area vs. artifact).
- ▶ Commonly done by professionals but good to know what your options are.

Pest Control and Cultural Institutions

► Hazards

- Can vary from old types of pesticides used to making sure modern treatment options won't harm the artifacts or us.



Pest Control and Cultural Institutions



Amy Crossman

@Crossman_AmyL

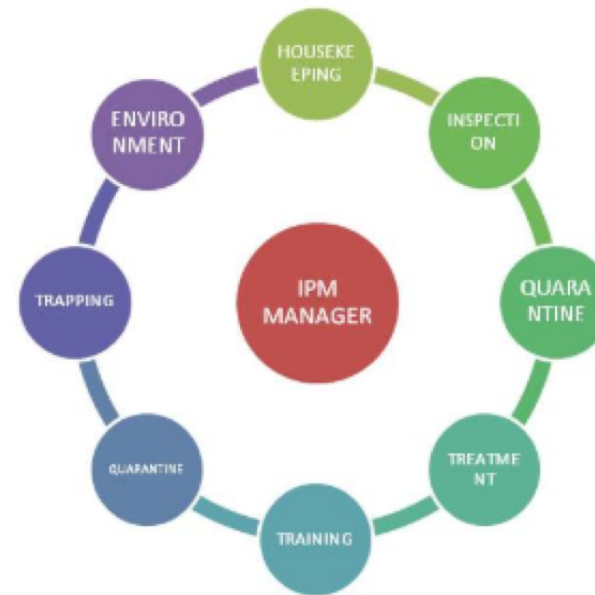
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#PrevCon18

7 The IPM Circle

All of these elements combined result in a best practice approach to IPM and be built upon & tailored to the individual needs of the organisation, collections & building types. Co-ordination by the IPM Manager is essential.

IPM MANAGER



5:45 AM - 29 Oct 2018

Resources

- ▶ <https://museumpests.net/>
- ▶ <https://www.canada.ca/en/conservation-institute/services/agents-deterioration/pests.html>
- ▶ <http://members.efn.org/~ipmpa/ipmintro.html#IPM%20is>
- ▶ <https://www.canada.ca/en/conservation-institute/services/agents-deterioration/pests.html>
- ▶ https://en.wikipedia.org/wiki/Museum_integrated_pest_management - Check the references on this one!!