

**17th MuseumPests
Working Group
(MPWG) Meeting**

**Hosted by:
The
Metropolitan
Museum of
Art**

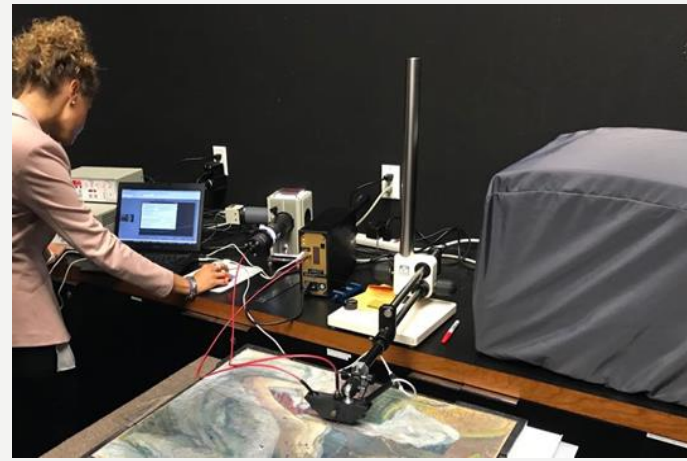
**FEBRUARY
26-28, 2020**

**DOWNSCALED
INTEGRATED
PEST
MANAGEMENT
FOR SMALL
INSTITUTIONS**



Emma Ziraldo
NEH Preventive Conservation Fellow
CCAHA

INTRODUCTION

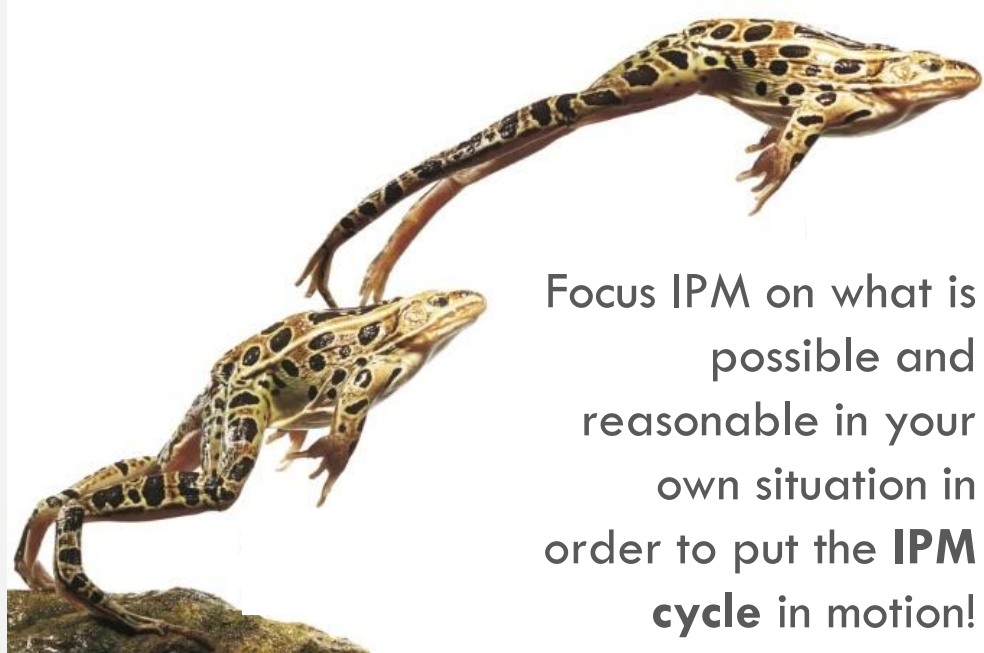


CONSERVATION CENTER FOR ART & HISTORIC ARTIFACTS (CCAHA)



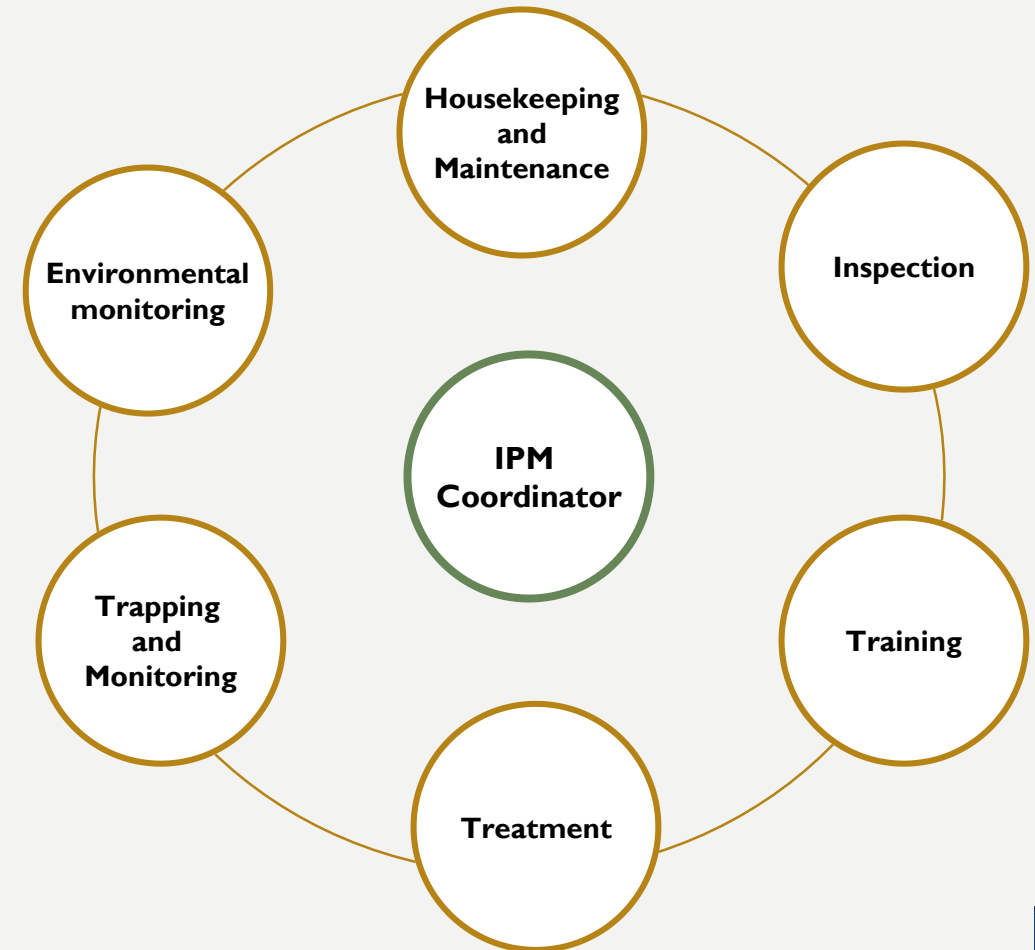
- Conservation: Paper, Books and Photographs
- Digital Imaging: Digitization and Facsimile
- Storage Solutions: Housing, Framing, Packing and Shipping
- Preservation Services: Survey, Consultation, Education, and Preservation Planning

GOOD AND BETTER PRACTICES FOR IPM IN HISTORIC HOUSES AND MUSEUMS



Focus IPM on what is possible and reasonable in your own situation in order to put the **IPM cycle** in motion!

Not always possible to achieve BEST practices...



IPM FROM THE CONSULTANT'S POINT OF VIEW

- Doing something is better than doing nothing!
- Look for evidence of pests activity.
- Placing traps is not a solution.
- Know your bugs!
- Establish your baseline.
- A sterile environment is not a healthy environment.
- Achieve a scaled down IPM if you can't afford to have designated specialists.

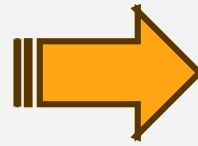


DOWNSCALED IPM APPROACHES OVERVIEW



WHEN ON SITE

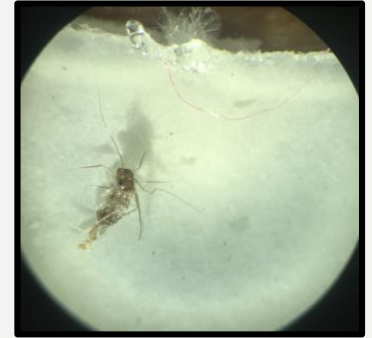
- Conduct basic inspection
- Talk to staff:
 - Where are exterior lights located?
And emergency lamp fittings?
 - Are doors sealed?
 - Have you noticed holes in textiles?
 - Is there any frass on the floor?
 - Do you have flying bugs?
 - Did you notice any droppings?
 - Do you dispose waste every day?



RECOMMENDATIONS

- Preventive approach: non-invasive
- Detection for damage prevention
- Protection of collections and their buildings
- Less expensive and more time efficient than combating the infestations
- Reduction, minimization of pesticides use
- Improvements in environmental conditions and housekeeping

COMPONENTS FOR POLICY DEVELOPMENT



- **Education, Communication** and training (familiarity with bugs and their habitats as well as specific guidelines)
- Responsibilities assignment and goals setting
- **Traps placement** (where pests are prominent)
- **Monitoring** (check traps at least quarterly)
- **Inspection** (establish the baseline) and **Housekeeping**
- **Species Identification**
- Estimation of pests populations
- Evaluation (of action thresholds and damage) and selection of management methods
- Assessment and Action (environment conditions modification, isolation, treatments, **reach out to external companies for mitigation strategies**)
- **Record keeping** for future reference

MONITORING AND TRAPS

- Choose an appropriate trap
 - **Sticky traps**
 - Pheromone traps
 - UV light traps
- Decide on appropriate placement
 - **Along perimeter of room or corners**
 - **Near doors**
 - Hang
- Keep good records
 - Make a room layout to identify location of traps
 - Keep log of room numbers and number your traps
 - Write down **date, location, insect types, life cycle stage, replacement**



SUPPORTING PLANS FOR MANAGING MUSEUM PESTS

Any material can be a source of food...

- Housekeeping Policy
- Acquisition Policy
- Loans Policy
- Exhibition Policy
- Access Policy
- Security Policy
- Special Events Policy



WRAP UP

- Find a good way to do better if you can't achieve best!
- Inspect collection areas before storing any new artifact and regularly thereafter.
- Early detection is important and can prevent infestations in the future.
- Increase general knowledge and awareness for an efficient IPM program.
- Be patient...





Thank you
very moth.

Emma Ziraldo

NEH Preventive Conservation Fellow, CCAHA

eziraldo@ccaha.org

RESOURCES AND KEY READINGS

- BS EN 16790:2016. *Integrated Pest Management (IPM) for Protection of Cultural Heritage*. London: British Standards Institution.
- Baars C., Henderson J., 2019. Novel Ways of communicating museums pest monitoring data: practical implementation.
- Biebl S., 2019. *Practical Emergency Plans in Case of Pest Infestations in Museums*.
- CCAHA, 2019. *Managing a Mold Infestation: Guidelines for Disaster Response*.
- CCAHA, 2019. *Freezing And Drying Of Books, Paper And Photographic Materials*.
- Crossman A., Pinniger D., 2013. *Museum Integrated Pest Management: a timeline*. In: P. Querner, D. Pinniger, A. Hammer (eds.), *IPM in Museums, Archives and Historic Houses – Proceedings of the International Conference in Vienne, Austria 2013*.
- Handerson J., Baars C., Hopkins S., 2019. *Standardizing and Communicating IPM data*.
- Mallis, A. 1997. *Handbook of Pest Control*. Mallis Handbook and Technical Training Company.
- Museumpests.net, 2019. *Dealing with an Active Infestation. Help! What do I do if I have an Active Infestation*.
- Peter W., Pinniger D., Bacon L., Child B., Harris K., Lauder D., Phippard J., Xavier-Rowe A., 2011. *Integrated Pest Management for Collections Proceedings: A Pest Odyssey, 10 Years Later*. English Heritage.
- Pinniger D., *Pest Management in Museums, Archives, and Historic Houses*, 2004. London: Archetype Publications Ltd.
- Pinniger D., 2015. *Integrated Pest Management in Cultural Heritage*. London: Archetype Publications Ltd.
- Portoni F., Doyle A., Phippard J., 2019. *Are we really integrating pest management? Reducing pest risk at a large national museum*.
- Querner P., 2019. *Communicating and Teaching Integrated Pest Management*.
- Simmons J. E., 2018. *Things Great and Small*. American Alliance of Museums.
- Strang T., Canadian Conservation Institute CCI, 1996. *Preventing Infestations: Control Strategies and Detection Methods*.
- Strang T., 2012, *Studies in Pest Control for Cultural Property*. Gothenburg: University of Gothenburg.
- Strang T., Kigawa R., 2018. *Agent of Deterioration: Pests*. Canadian Conservation Institute.
- The National Trust, 2006. *Manual of Housekeeping: The Care and Collections in Historic Houses Open to the Public*. Amsterdam: Elsevier/Butterworth and Heinemann.