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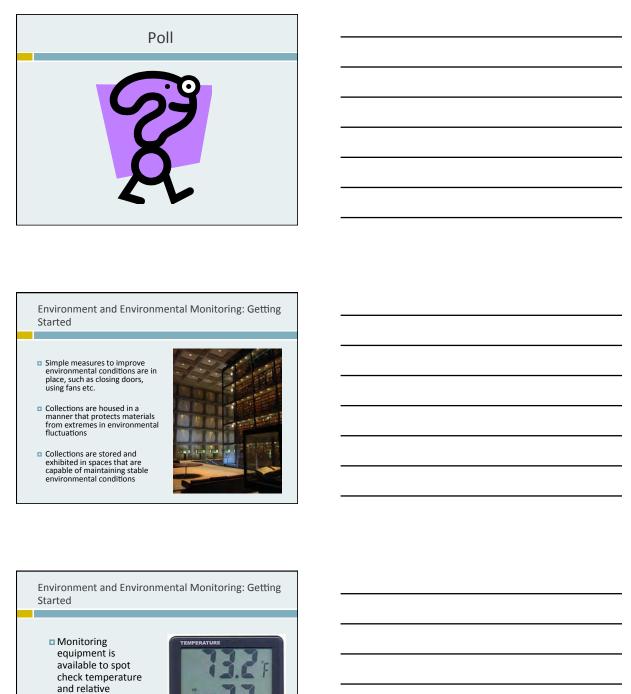
| PRESERVATION BEST PRACTICES  SESSION 2 THE ROLE OF ENVIRONMENT IN COLLECTIONS CARE: TEMPERATURE & RH, LIGHTING AND PEST MANAGEMENT |  |
|--|--|
| Today  Environment and Environmental Monitoring Lighting Pest Management   |  |
| Environment and Environmental<br>Monitoring  |  |







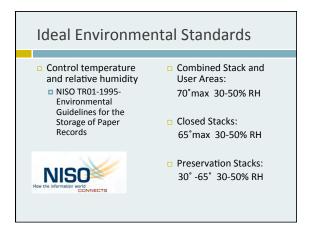


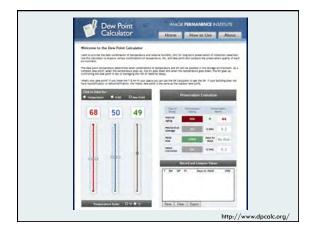


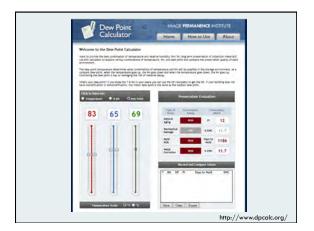
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humidity levels

 Environmental data is regularly collected and retained





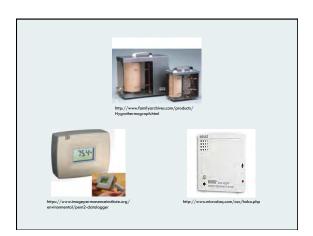




Environment and Environmental Monitoring: Good

A systematic program to measure humidity and temperature is in place with hygrothermographs or dataloggers. The system is based on defined monitoring objectives





| Environment and Environmental Monitoring: Good   |   |
|--|---|
| Staff is trained in use of monitoring equipment  |   |
| Monitoring equipment is recalibrated as recommended by   |   |
| recalibrated as recommended by the manufacturer  |   |
| ☐A record is kept of events that might affect environmental  |   |
| conditions, such as receptions,<br>leaks, systems failures, outside<br>weather conditions etc.   |   |
| □Desired set points are<br>established that are achievable   |   |
| for the storage and exhibition areas   |   |
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| Environment and Environmental Monitoring: Better   |   |
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| Qualified staff members or   |   |
| consultant analyzes and prepares a   |   |
| summary of   | - |
| environmental data  Inter//www.namenidam.com/bits//pep-carear/agincal/data-card/spi-carteon-1-gif  |   |
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| Environment and Environmental Monitoring   |   |
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| □ Environmental Analysis   |   |
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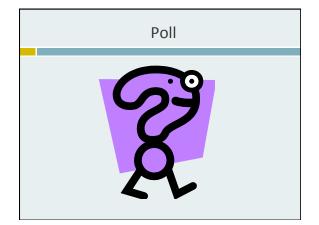
eClimate Notebook"

#### **Environment and Environmental Monitoring: Better**

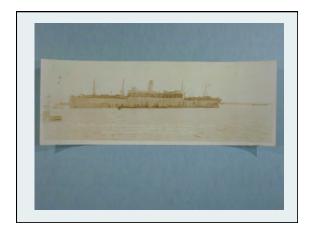
- Environmental monitoring data is used to adjust environmental control systems and procedures
- The monitoring program is reviewed at regular intervals
- An environmental engineer is hired on an annual basis to ensure systems are working at their highest efficiency
- established for sensitive collections materials
- Monitoring is done for levels of air pollutants



# Lighting









# Recommended Light Levels Storage 0-5 Footcandles; 0-55 Lux Display/Exhibitions 5-15 Footcandles; 5-165 Lux Reading/Work 30-60 Footcandles; 330-660 Lux Ultraviolet Content <a href="#">\*\* So microwatts per lumen;</a> < 2-4% UV

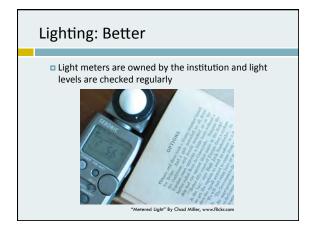
#### Lighting: Getting Started

- All windows in storage and exhibition areas are covered
- Light sources are not placed directly over collections materials
- Lights are turned on in storage areas only when materials are being retrieved
- Fluorescent lights are covered using ultraviolet filtering films

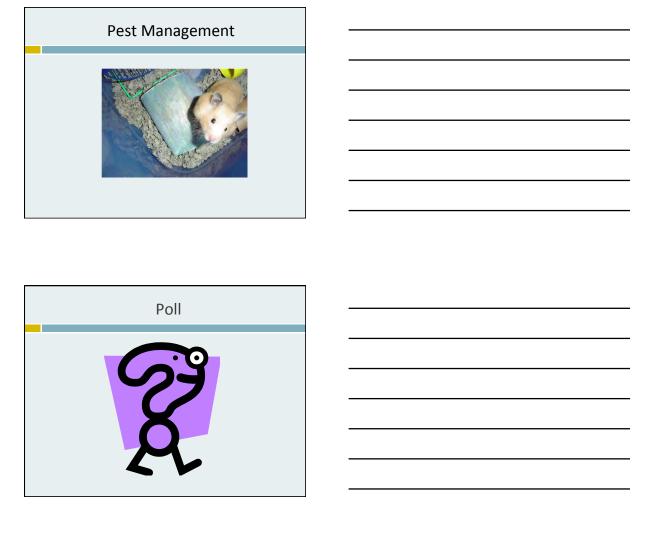




# Lighting: Good Light sensitive materials on exhibit are regularly rotated Records are kept on light exposure for materials placed on exhibition A schedule is in place for testing and replacement of ultraviolet filtering film Light sensitive materials are not left out in work areas for extended periods of time









#### Pest Management: Getting Started Storage areas and furniture are cleaned on a regular basis All trash containing food is removed from the building on a daily basis □ Staff keeps food in airtight containers and cleans all eating areas daily

#### Pest Management: Getting Started

- All incoming items are examined for pest and mold infestations. Remedial action is taken to prevent the spread to the rest of the
- $\hfill \square$  Any items exhibiting signs of pests are isolated from the rest of the collection until treated



#### Pest Management: Good

- Vulnerabilities for an infestation are mitigated, such as sealing possible infiltration areas, use of outside lighting, correction of draining problems, sweeping gasket on exterior doors, and use of screens
- Storage and exhibition areas are monitored for the presence of pests with glue boards





# Pest Management: Good All pests are identified and records are well as records of special events that might affect environmental conditions, such as creeptions, leaks, systems failure out. The institution's selected pest management company understands the specific past control needs for safety of insecticides are used consistently as a pest deterrent Active is sought from a conservator before treating any affected materials Pest Management: Better The institutions for cleaning storage and exhibition areas are written and followed An formalized integrated pest management program is in place for monotroing and responding to an infestation Are you prepared for INVASION? Baild your defense against pests. Inter//www.propositiopanamaticians/

#### **IPM**

"Preservation professionals increasingly recommend a strategy called integrated pest management (IMP). This approach relies primarily on nonchemical means (such as controlling climate, food sources, and building entry points) to prevent and manage pest infestation. Chemical treatments are used only in a crisis situation threatening rapid losses or when pests fail to succumb to more conservative methods."

- Beth Lindblom Patkus

#### Environment in Colections Care: Temperature and RH, Lighting, and Pest Managemet

#### Principles of IPM Prevention Take necessary measures to prevent the need to use chemical extermination Facilities, Environment, Housekeeping Early Detection Consistent monitoring and inspection Take necessary actions to eliminate pests, preferably through non-chemical means Pest Management: Better □ Selection of pest infestation treatments, traps, and bailing are appropriate for the safety of collections and people □ A specialist in integrated pest management programs for cultural institutions review the IPM program at regular intervals ■ A separate space is available for segregation of infested materials or those suspected of infestation Thank you and Questions Questions about collections care?

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Contact the California **Preservation Program** info@calpreservation.org

12/10/2013

| Next Session  |                          |
|---|--------------------------|
| Session 3: Handling,<br>Access, Storage, and<br>Exhibition<br>December 12, 2013 |                          |
|   | Archives of American Art |