

# Maintaining an Optimal and Sustainable Preservation Environment

**James M. Reilly**

**Sterling Memorial Library, Yale University, New Haven, CT  
October 28—29, 2010**



NATIONAL ENDOWMENT FOR THE HUMANITIES

# Institutionalize the Process

- Activities change with time, but the need for the team process continues
- Process slowly becomes part of institution's overall management
  - Administration buy-in becomes greater
- Analysis moves from tactical to strategic
  - Elevates professionalism of all players



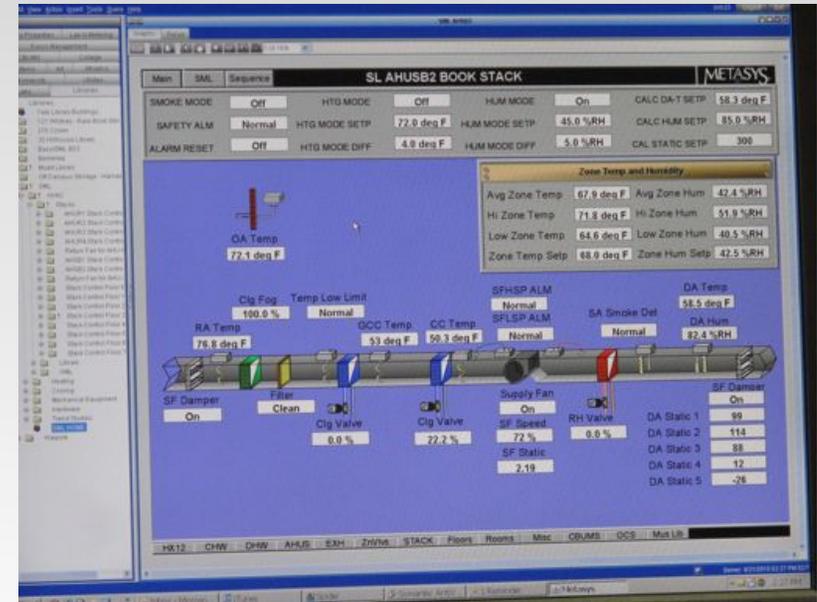


# Key Activities to Maintain Optimal Climates

- Proactively watch for malfunctions
  - Preservation staff monitors space conditions
    - Unexpected changes in T, RH or DP
    - Lights on in unoccupied spaces
  - Facilities staff monitors set points
    - Cooled air temperature (i.e., DP)
    - Supply air temperature

# Key Activities

- Track who has authority to change set points
  - Who can request a change?
  - Who can implement a change?



# When Deviations are Observed

- Team acts quickly to determine cause of deviation and verify corrections



# Key Activities to Maintain Minimal Energy Consumption

- Minimize loads in spaces
  - Minimize lighting operation
  - Minimize equipment operation
    - Computers, copiers, etc.
  - Minimize infiltration through envelope
    - Doors and windows closed
- Avoid unnecessary sub-cooling and reheating

# Key Activities to Maintain Minimal Energy Consumption

- Minimize quantity of outside air
  - Occupied hours
  - Unoccupied hours
- Minimize total air
  - System slowed or off
    - Occupied hours
    - Unoccupied hours
    - Seasonal adjustments

# Last Thoughts...

- Take it slow but keep pushing
- Caring is the first and most important step
- No progress without accurate data
- No progress without teamwork
- No progress without institutional support
- Communicate with and educate your colleagues