

SPELL-JIF 7TH ANNUAL ENVIRONMENTAL MANAGEMENT SEMINAR

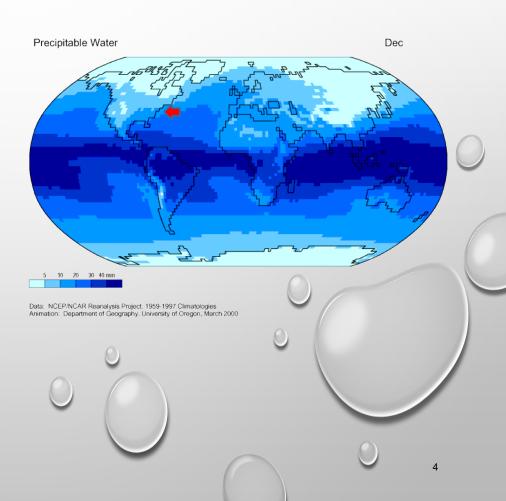


WATER...AN ENIGMA



FIND THE WATER — FIND THE RISK

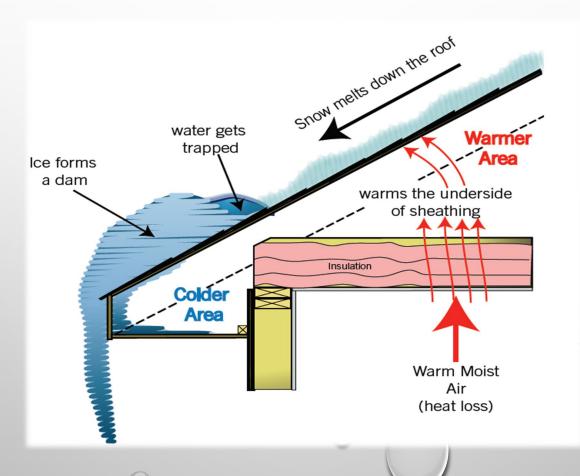








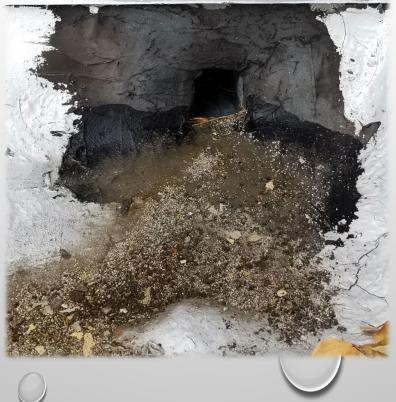


















ROOF MAINTENANCE

- ✓ Develop a written, comprehensive plan for the inspection of roofing systems.
 - Adhere to OSHA requirements for roof work.
 - Quarterly inspections are best. Twice annually at a minimum (once after the fall and once before summer).
 - > Thermal scans once every five years.
 - Assess discharge areas and drainage systems
- ✓ Maintain historical records.

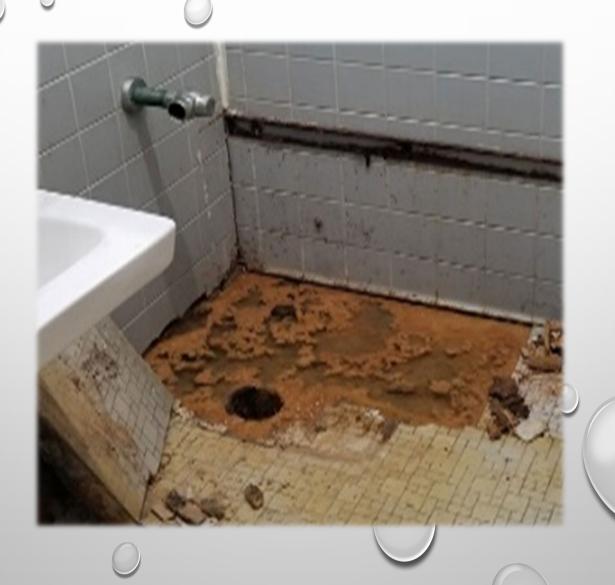


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THE "NOT SO" OBVIOUS



THE "NOT SO" OBVIOUS







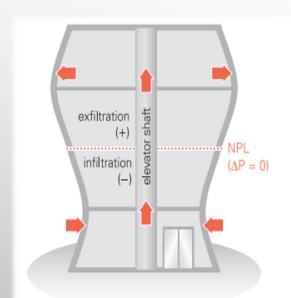






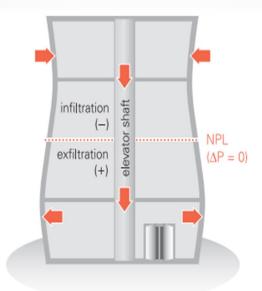
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THE "NOT SO" OBVIOUS... ...AIR FLOW



Winter (normal) stack effect

- Inward-swinging doors may not latch
- Exfiltrating indoor air drives moisture into building envelope



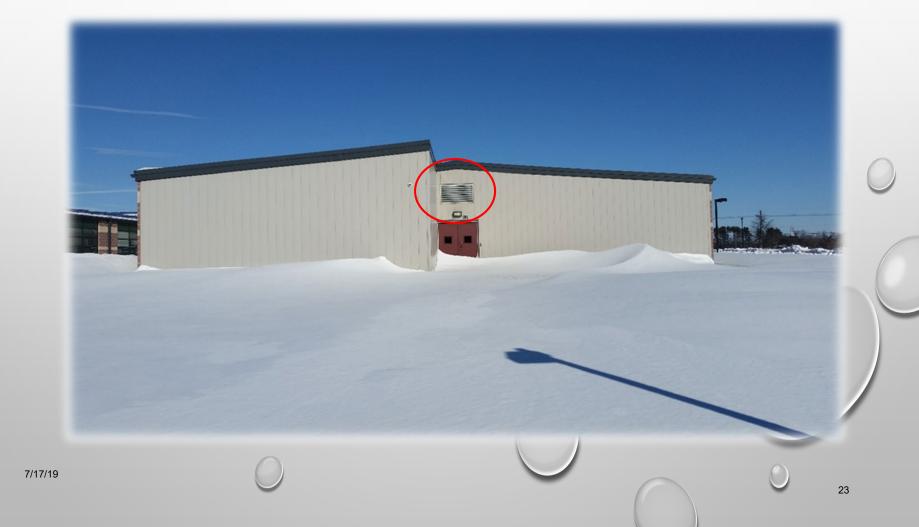
Summer (reverse) stack effect

- Outward-swinging doors may stand open
- Infiltrating outdoor air drives moisture into building envelope

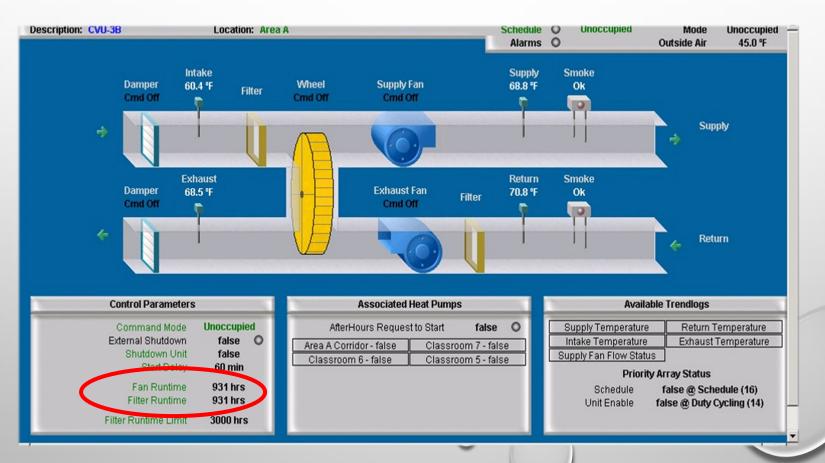
When indoor air is cooler than outdoor air, the column of air inside the building is more dense. The result is a net negative pressure at the top of the building and a corresponding net positive pressure at the bottom. Unless building pressure is controlled, outdoor air will infiltrate the upper floors while indoor air exfiltrates from the lower levels. The pressure difference also induces downward airflow in stairwells and shafts—reverse stack effect.



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IDENTIFY AND MANAGE THE "ATTRACTIONS"



MANAGE THE "ATTRACTIONS"



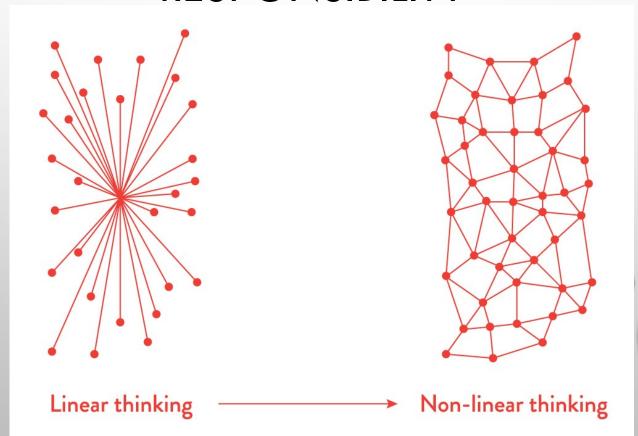






MOISTURE MANAGEMENT -

"MUST BE EVERYONE'S RESPONSIBILITY"



Moisture Management Plan

- ✓ Written performance expectations for B & G staff.
- ✓ Written inspection/response protocols.
- Remain diligent.
- ✓ Treat water leak indicators similar to an emergency response. Response actions must be robust.
- ✓ Balance instructional needs with inherent risks.
- Clearly articulate plan to all staff.
- ✓ Never dismiss a complaint.
- ✓ Ensure that all response activities are conducted in an open process and are properly documented.

Summer Cleaning Suggestions

- ✓ Frequent space inspections.
- ✓ Keep all room doors (including closets) & shades open at all times.
- ✓ Use dry carpet extraction when possible. Or use the least amount of water as possible.
- ✓ Windows should be closed or slightly open.
- ✓ Use floor fans.
- ✓ Raise A/C set points in unoccupied areas.
- Minimize activation of mechanical ventilation systems in unoccupied spaces.



THANK YOU!