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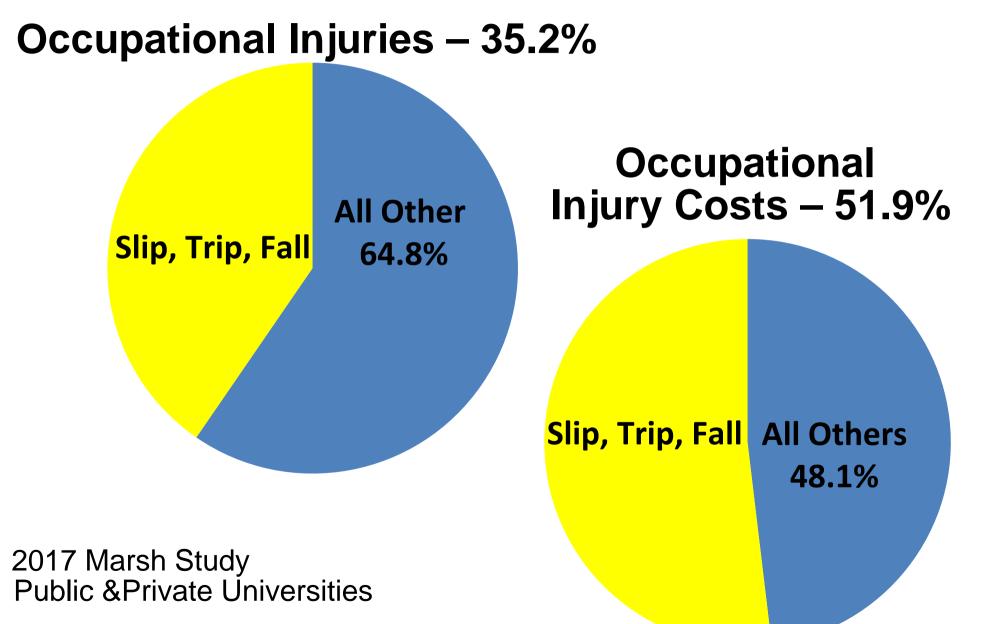


# Don't Let Opportunities Slip Away – Strategies for Preventing Falls MARCH 7, 2019

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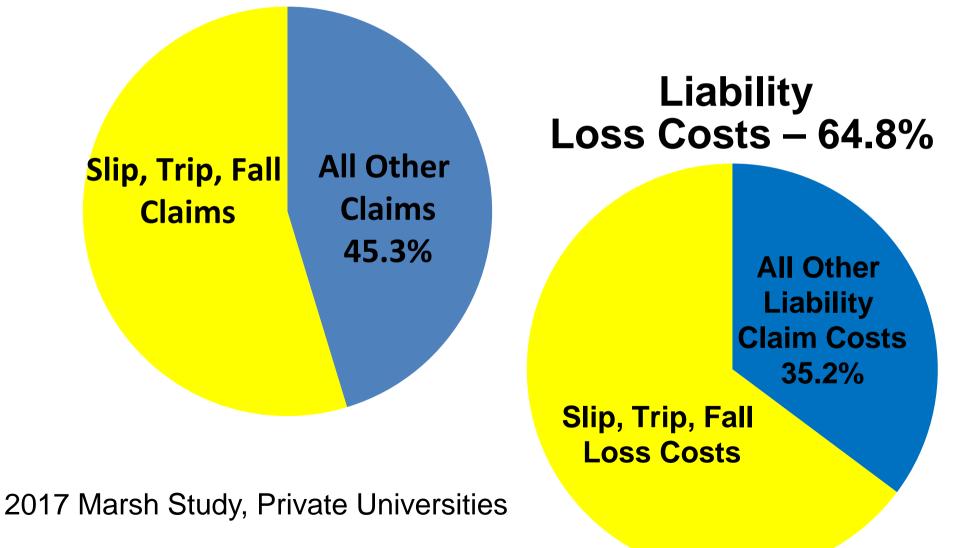


Impact of Slips, Trips and Falls Occupational Injuries and Workers' Compensation



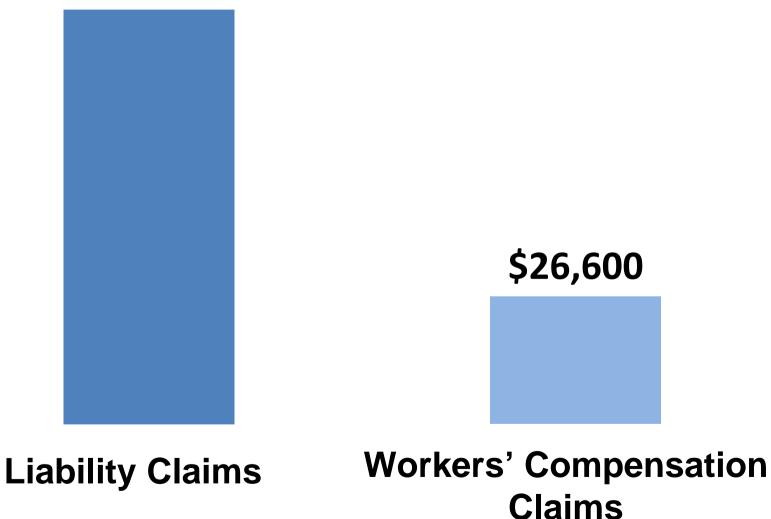
Impact of Slips, Trips and Falls General Liability Claims

# Liability Claims - 54.7%

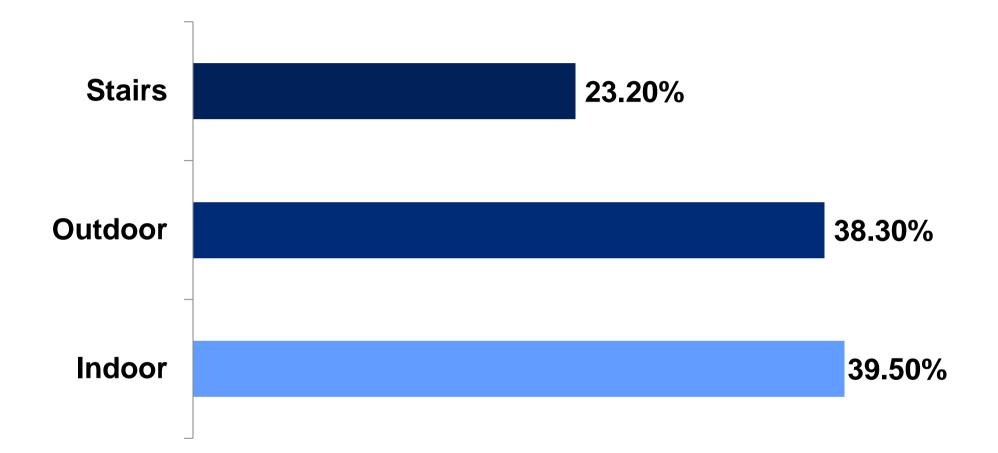


### Impact of Slips, Trips and Falls Average Loss Occupational Injuries and Liability Claims

## \$86,400



### Impact of Slips, Trips and Falls Liability Claims by Location



### 2017 Marsh Study, Private Universities

Impact of Slips, Trips and Falls Emerging Liability Trend

- Concussion Traumatic Brain injury Liability Claims
- Non-student athletes

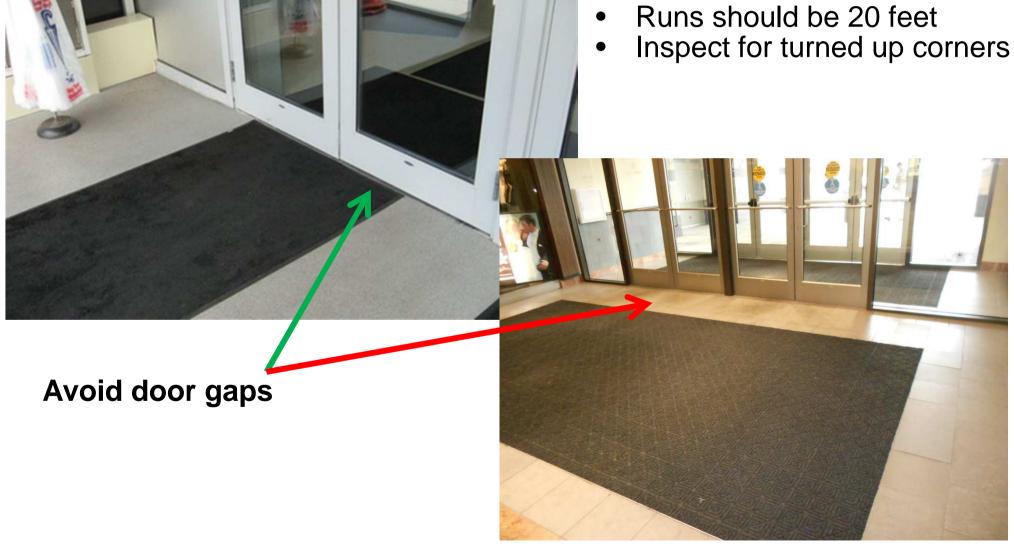
o **2018** 

- Settled \$1,750,000 (Outdoor)
- Settled \$1,200,000 (Outdoor)
- Settled \$1,450,000 (Outdoor)

• Entry Mats – in-floor construction with drain pit



• Entry Mats – in-floor construction with drain pit





• Provide a building mop kit, a floor mop kit is even better.



• When mopping floors, swab no more than a 4' wide swath. This will reduce stress on the shoulders and lower back.

• Use warning signs





• Invest in floor drying equipment



**!!!** Be mindful of power cords.

• Review floor cleaning procedures



- Employees are often required to mix cleaning solutions from concentrate.
- Misblending will waste solution.
- Inadequate mopping will leave solution on the floor which re-emulsifies creating a soapy floor.
- What is the slip resistance of the floor wax?

**!!!** Always work moving forward to keep the power cord behind.

- Walking Surface Maintenance: Static Coefficient of Friction (COF)
- Minimum Coefficient of Friction (COF)
  - OSHA 29CFR 1920.22 recommends 0.5 COF
  - ADA Section 4.5.1, Appendix B: recommends 0.6 COF
  - ADA Section 4.5.1, Appendix B recommends 0.8 for sloped surfaces
  - ANSI A1264.2 recommends 0.5 COF
  - Target should be 0.65 COF

### English XL Tribometer



### Impact of Slips, Trips and Falls Kitchen Fall Prevention

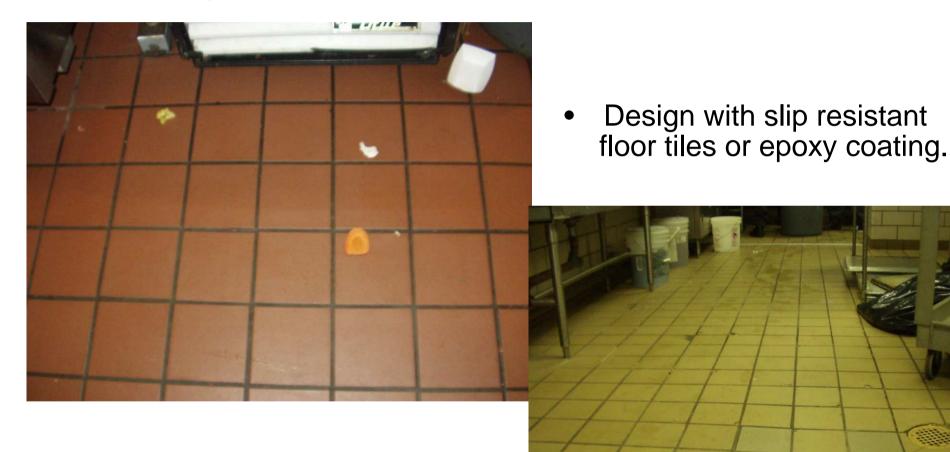
• Eliminate raised door saddles





### **!!!** Replace broken tile.

• Rule: Clean up when it falls !



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• Mats at "wet" stations double as anti-fatigue mats.



- Self serve stations
  - o Salad
  - o **Drinks**



• Mats at Self serve stations.



- o Salad bar
- o Drink stations



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• Slip resistant footwear



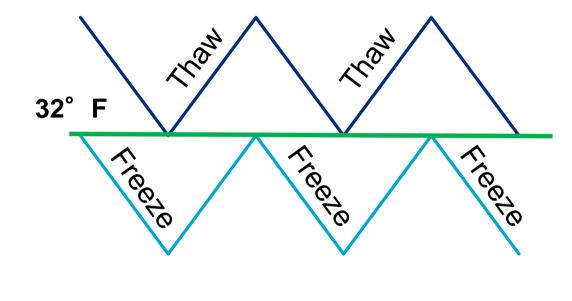
 Plug: Shoes for Crews https://www.shoesforcrews.com/



- Snow and Ice Care Guideline
  - Assignment of crews to geographic areas.
    - Designated contractor routes and parking lots,
    - Preseason equipment maintenance plan.
    - Overnight accommodations for staff.
    - Prioritize campus routes and stairs by usage.



- Snow and Ice Care Guideline
  - Provide ice melt stations around campus to minimize carrying.





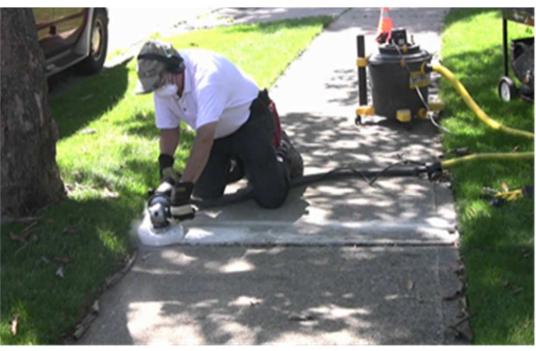
- Off-Season Projects / Repairs
  o Spring Inspection:
  - Walkways "pooling" of rainwater.





- Off-Season Projects / Repairs
  - Misaligned concrete slabs.
  - Replace or wet grind (note the silica exposure)





- Fall Maintenance
  - $\,\circ\,$  Leaves blocking storm drains.
  - $\circ\,$  Wet leaves on walking surfaces.





Walking / Driving Intersections
 Marked transition points





Impact of Slips, Trips and Falls Stairs

- Center Handrails
  - $\circ$  88 inches width or less
  - $\circ~$  In good condition





Impact of Slips, Trips and Falls Offices

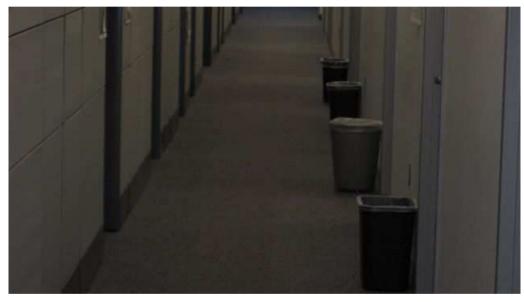
- Strap up cords
- Educate employees





### Impact of Slips, Trips and Falls Offices

• Be sensible about siting waste disposal containers.





### Impact of Slips, Trips and Falls Offices

• Color contrast for changes in surface textures.



Impact of Slips, Trips and Falls Human Factors

- Aging Workforce
  - A little heavier
  - Not as agile
  - Not as resilient when we do fall
  - Don't see like we used to

- "3 Points of Contact" on stairs
- Dress code addresses footwear
- Encourage vision care



### Impact of Slips, Trips and Falls Human Factors

- Distracted Walking
  - The problem is not just over the road.





### Impact of Slips, Trips and Falls Human Factors

• Signage



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# Typical Phases of Incident Investigations and How to Conduct Them

# **Respond to the Scene**

- Verify it is ok to approach safely
- Secure the area to prevent further injuries
- Assess any injuries and get medical care, if needed
- Notify appropriate personnel of the accident
- Preserve evidence



# Interview Injured Individual and Witness(es)

- The injured individual should complete an incident report
- Witnesses should complete witness reports
- Questions to ask:
  - What was the individual doing at the time of the accident?
  - Was the employee qualified to perform this operation?
  - Were procedures being followed?
  - Were proper tools and equipment being used?
  - Had the employee received proper training for the operation prior to the incident?

# Interview Injured Individual and Witness(es)

- Questions to ask:
  - What was the physical condition of the area when the incident happened? (Wet, muddy, hot, cold, debris in the way or clear)
  - What were the witnesses doing at the time of the incident?
  - What immediate or temporary action could have prevented or minimized the incident?
  - What long-term or permanent action could have prevented or minimized the incident?



# **Analyze the Scene**

- Take photos of the area
- Focus on finding causes



 Had a previous action been taken to prevent the incident? If so, why did it fail?



# **Develop Corrective Actions**

- How do we prevent/minimize a reoccurrence?
  - Physical change
  - Safety rule or process change
- Assign someone to assure corrective actions are completed
- Follow-up to assure they were completed