

# Foundation Problems & Solutions

Mike Morin & Bob Parsons

# Intro

Mike Morin



Bob Parsons



# Intro

Mike Morin



Bob Parsons





# Overview – How Foundations Fail

- Wet



- Humidity



- Settlement



- Wall failure



# How a Basement Leaks





# How a Basement Leaks



# Solutions: Wet Basement





# Crawl Space Problems





# Solutions: Crawl Space Moisture

- Isolate the earth from the wood structure of the home
- Seal the vents
- Control ground water if needed
- Add a dehumidifier designed for the space



# Solutions: Crawl Space Structural Problems





# Solutions: Crawl Space Structural Solutions



# Foundation Wall Issues

- Vertical Settlement
- Lateral – bowing or tipping





# Soils



# Solutions: Foundation Settling





# Problem: Foundation Wall Lateral Movement

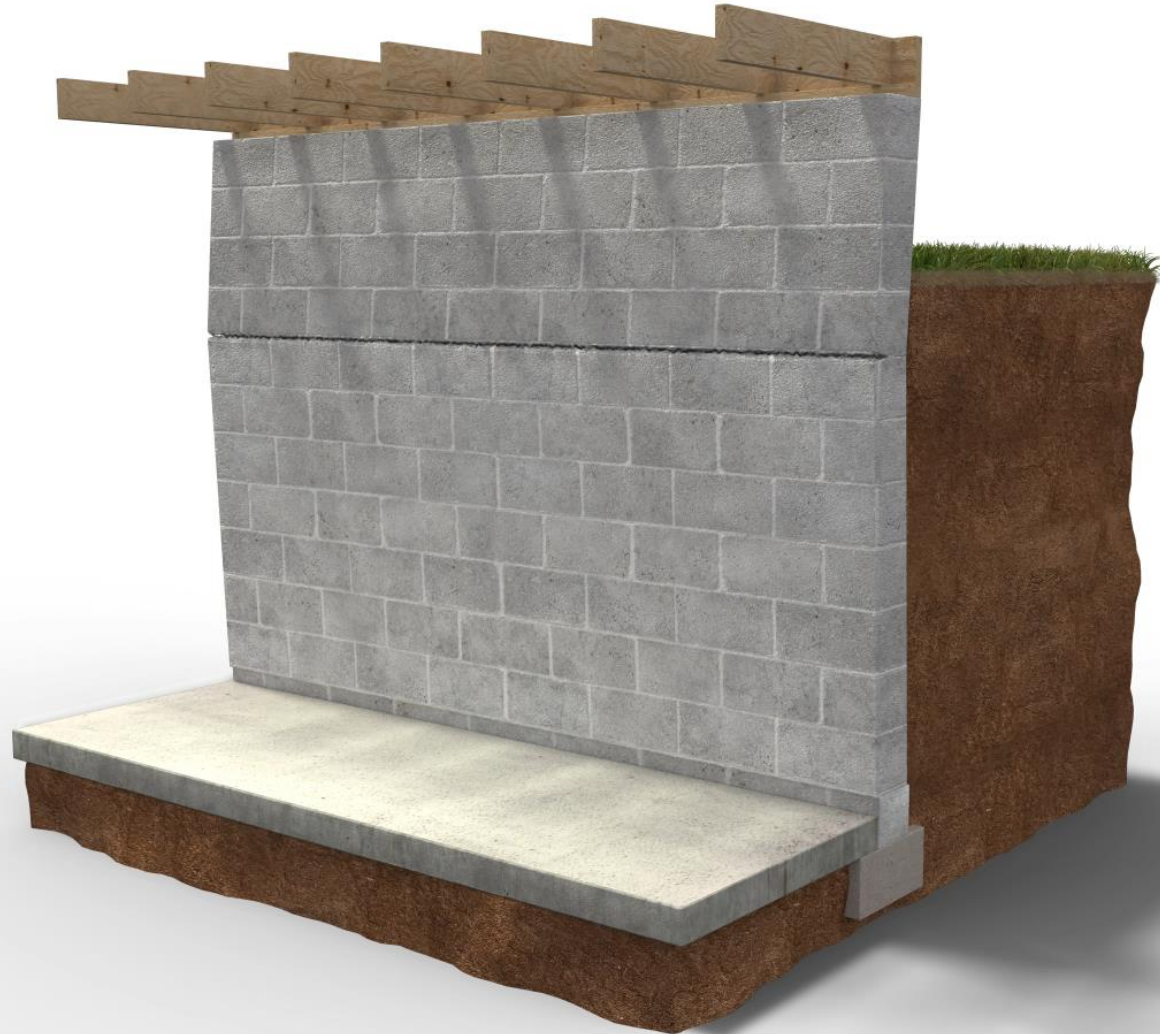


# Solutions: Foundation Wall Lateral Movement





# Solutions: Foundation Wall Lateral Movement



# Final Thoughts



- Prevent foundation problems
  - Direct water away
  - Build support structure for additions and decks correctly
  - Maintain the area around the foundation
- Contact an expert if you're concerned about your foundation







# Presenter Contact Information



Mike Morin

[mpmorin01@gmail.com](mailto:mpmorin01@gmail.com)



Bob Parsons

[parsons@tchafford.com](mailto:parsons@tchafford.com)

TC Hafford Basement Systems

[www.tchaffordbasementsystems.com](http://www.tchaffordbasementsystems.com)

207-641-8602



# Disclaimer

- This presentation is not intended to be a comprehensive program covering all aspects of this topic.
- All are participants are encouraged to read and follow applicable standards, codes and regulations related to this topic.
- The views and opinions following are the presenter's opinions and not necessarily the official position of the Maine IAQ Council, IAQnet LLC, or Healthy Indoors.