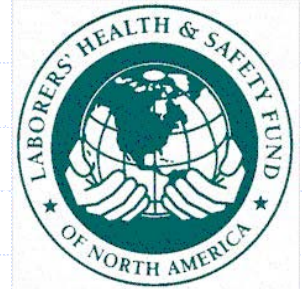


# Prevention through Design in Construction- Moving Forward

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# We've Come A Long Way

- ◆ A lot of work has been done on PtD in Construction
  - Conferences
  - Website
  - Toolkits
  - Proceedings, Papers
- ◆ But it hasn't yet gained acceptance in the industry

# The Industry is Frustrated

- ◆ Contractors and workers are frustrated
- ◆ Too often they have to build projects where there was little thought as to how it could be built safely
- ◆ They have a common interest in “constructability”
- ◆ It would save time, money and lives

# The Evidence is There

- ◆ Studies in Australia show about 30% of injuries and fatalities could be prevented by good design
- ◆ Making changes will help throughout the entire lifecycle of the building
- ◆ Everyone wins- the owner, contractor and construction worker
- ◆ So why isn't it more widespread?

# Barriers

◆ Designers are concerned about liability

◆ Designers need training on PtD

◆ But:

- Employers are legally responsible for a safe workplace

- Making a good faith effort is the best defense

(Didn't designers specify asbestos insulation in the 1950s- 70s resulting in tens of thousands of deaths, costs?)

- Designers will seek training when they see a demand or need

# Opportunities

- ◆ Start with Owners who already understand the benefits and business case
- ◆ Work with Design-Build firms who have an incentive to incorporate it
- ◆ Incorporate PtD into LEED
- ◆ Get OSHA to take an active role to promote PtD in Construction

# Creating a New Normal

- ◆ In Britain and Australia, PtD is part of the normal construction process through construction safety design reviews before the project starts.
- ◆ They are mandated by law (CDM in Britain since 1995) or considered best practice (CHAIR in Australia)

# Moving Forward

## ◆ Documentation

- Collect horror stories about the impact of poor design that resulted in significant costs and injuries/deaths
- Collect success stories from owners/designers making the business case
- Show how PtD can be a competitive advantage
- Create fact sheets on simple inexpensive yet effective design changes

# Creating Demand

- ◆ We need to listen to designers and owners to see what their concerns and needs are- focus groups
- ◆ We have to show them “what’s in it for them?”
- ◆ Can we appeal to a moral duty?
- ◆ We need to make the case directly to them- trainings at AIA conference, continuing ed credit courses
- ◆ We need to create a demand for PtD, e.g. through owners (CURT), LEED, Design-Build firms, Federal Government
- ◆ Should we create an award for designers that are the best at PtD?

# Long Term

- ◆ Do we need to make regulatory changes to require PtD in construction (like CDM)?
- ◆ Could the OSH Act be amended to encompass designers?

# Conclusions

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- ◆ A lot of work has already been done on PtD for construction
- ◆ But we haven't reached the tipping point
- ◆ To move forward we need to understand how to motivate owners and designers and get around the barriers to adoption to create a new standard of care