



**Chief Ed Hartin**

MS, EFO, FIFireE, CFO

# **IFIW ED (not TED) Talk**

*Ideas worth thinking about*

**Fire Chief, Central Whidbey Island Fire & Rescue**

*Previously worked for other fire and rescue services in urban, suburban, and rural communities across the US.*

**Immediate Past President**

**Institution of Fire Engineers, USA Branch**

**Owner & Chief Instructor, CFBT-US**

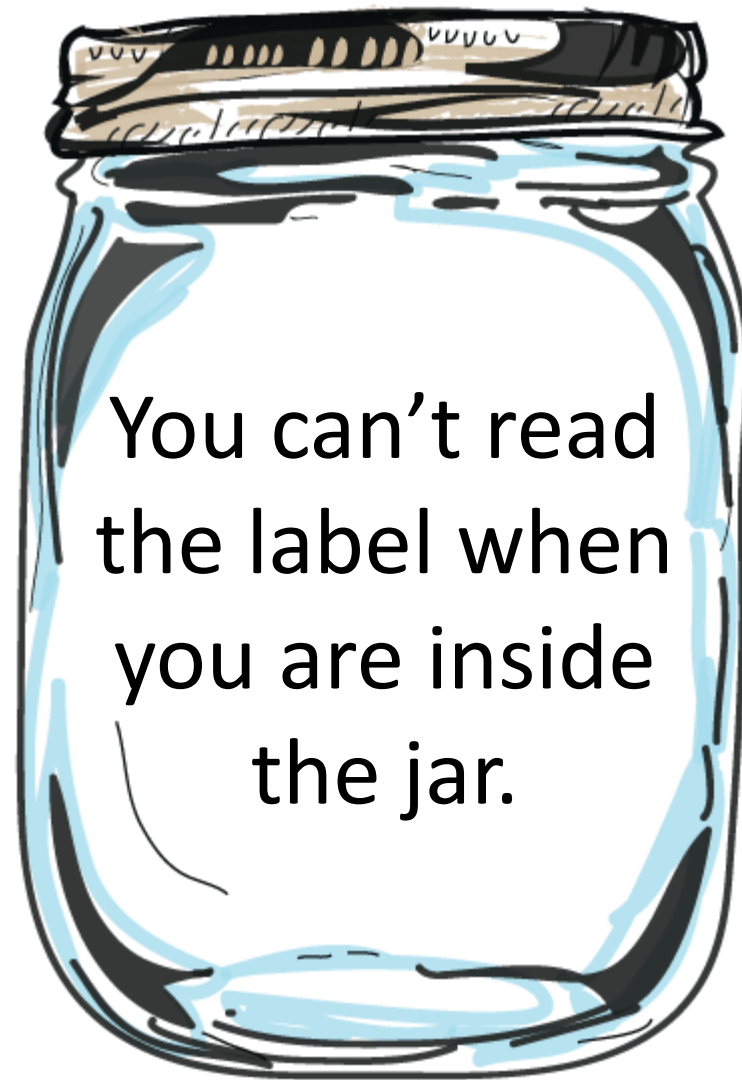
*Taught and leaned in 11 countries around the world with an emphasis on fire behavior and firefighting tactics.*

**Member, UL-FSRI Advisory Board**

*Served on the horizontal ventilation, vertical ventilation, and attic fires technical panels and now on the UL-FSRI Advisory Board.*

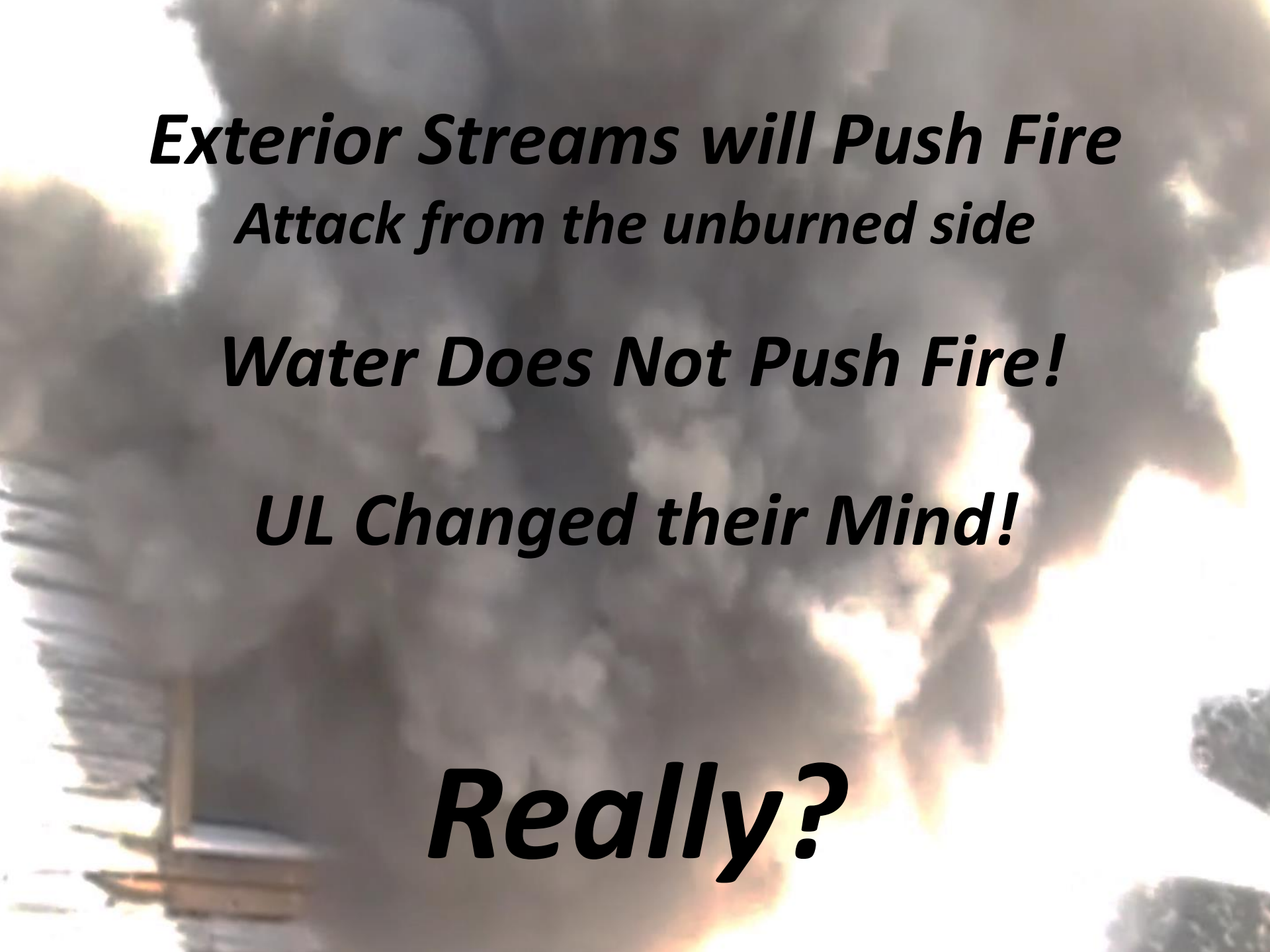
**Member, Firehouse Editorial Advisory Board**

*Facilitate the International Perspectives Column*



You can't read  
the label when  
you are inside  
the jar.



A large fire is burning, with thick black smoke rising from a building. The fire is intense, with bright orange and yellow flames visible. The smoke is dense and billowing, partially obscuring the building. The background shows some trees and a clear sky.

***Exterior Streams will Push Fire  
Attack from the unburned side***

***Water Does Not Push Fire!***

***UL Changed their Mind!***

***Really?***

# Epistemology

*the theory of knowledge, especially with regard to its methods, validity, and scope, and the distinction between justified belief and opinion*

What do we know and  
how do we know it?



- ✓ Exterior streams can push fire
- ✓ Water doesn't push fire
- ✓ Pressure changes push fire  
(maybe...)
- ✓ Water can be applied from the exterior without pushing fire

# Belief & Knowledge



There is nothing so useful as a good theory

Kurt Lewin



# Bias in Research

***Bias exists in all study designs***, and although researchers should attempt to minimise bias, outlining potential sources of bias enables greater critical evaluation of the research findings and conclusions. Researchers bring to each study their experiences, ideas, prejudices and personal philosophies, which if accounted for in advance of the study, enhance the transparency of possible research bias. Clearly articulating the rationale for and choosing an appropriate research design to meet the study aims can reduce common pitfalls in relation to bias.

*Bias in Research*

Joanna Smith & Helen Noble

# Context

*When does it matter,  
when does it not and why?*

# Semantics

*Is it just “semantics”?*

*What is the importance of language?*



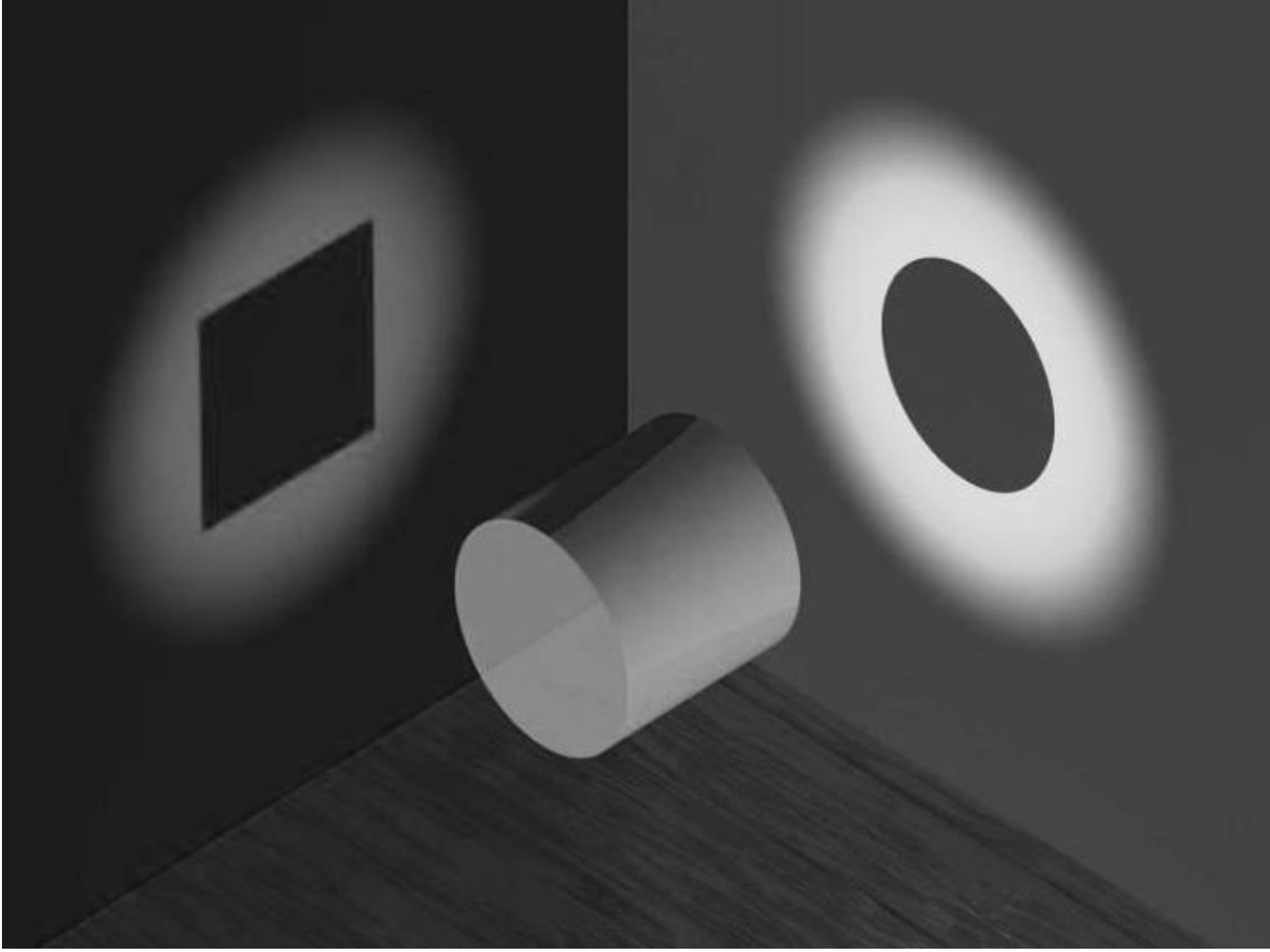
# Critical Friends



\_\_\_\_\_ is the best method

\_\_\_\_\_ is effective

Of the methods tested,  
\_\_\_\_\_ was the most effective





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