

# P. Hunt

## Hazard Analysis



Thomas Jefferson National Accelerator Facility

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# Accelerator Division Summer Shutdown PPE Eye Protection



# Safe Behaviors Often Lack Natural Rewarding Consequences. So why wear safety eyewear?



# Several eye injuries over the last year, three on the Accelerator Site:

1. Particle in the eye, work involved was drilling
2. “Snoop” in the eye, work involved was leak detection
3. Methanol in the eye, work involved was picking up a squeeze bottle

# What was different about the work that caused the injuries?

1. Windy conditions with outdoor work
2. Overhead spraying of “Snoop”
3. Squeeze bottle was on shelf with nozzle at eye level with user

**In two of the three cases, safety glasses were worn!!!**

**Goggles would have provided full protection.**

# Key to prevention: Task Hazard Analysis

- Work being done: Routine or unique
- Tools being used: What safety equipment is needed.
- Chemicals: Quantity used, likelihood of splash, severity of exposure
- Location of work: Eyewash nearby, environmental conditions, overhead work, staff nearby

# Safety Glasses

- ANSI Z 87
- Impact protection
- Limited splash protection



# Goggles

- Goggles should be worn when splash protection is needed, or very dusty environments





# Face Shields

- Goggles or safety glasses with face shield are necessary when splash to skin could cause damage



# Where to get it

- JLab Stockroom
- Safety Lab
- JLab has an onsite vendor to provide prescription safety eyewear.

# Shutdown tasks: Safety Eyewear Usage

Squeeze bottle use of solvents	Safety glasses
Using Snoop overhead	Goggles
Emptying penetrations in the tunnel	Goggles
Magnet flushing	Goggles
Cryogen work large quantities	Face shield & safety glasses
Cryogen work less than 5 L	Goggles