



# COLLAB HOUR



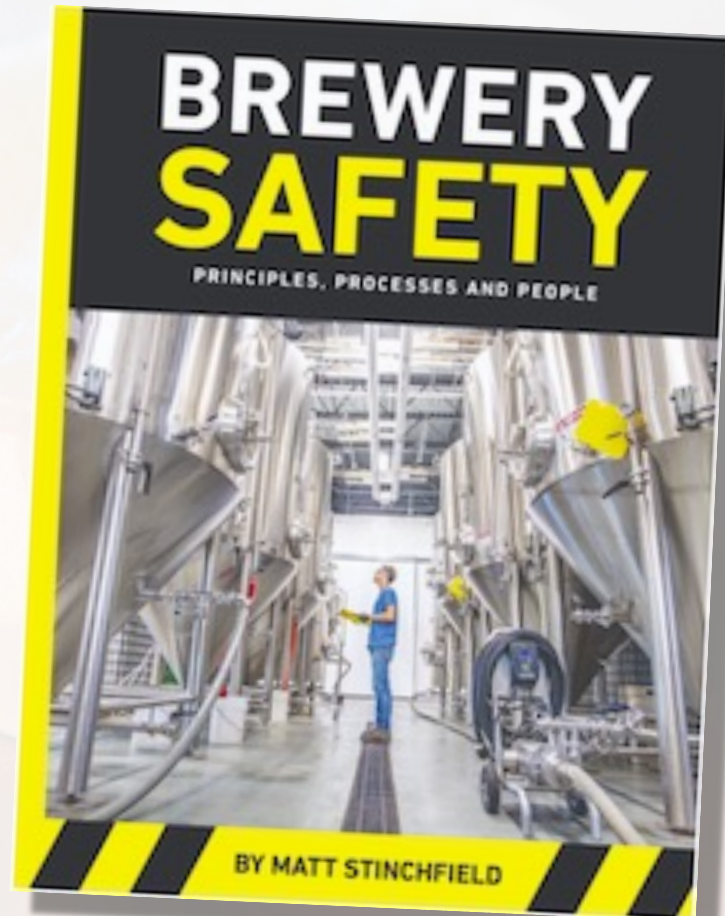
Weekly Webcast  
for Members

## SAFETY: WHAT MATTERS IS ENERGY

**A Glimpse Into**

*Brewery Safety: Principles, Processes, and People*  
with **Author Matt Stinchfield**

**So, this  
happened...**



**1. Energy may be Beneficial or Hazardous**

**2. Safety is Freedom from Harm**

**3. Harm is body change that occurs after absorbing, or reacting to, change in energy**

**4. Energy Harm:**

- **Directly**
- **Putting Mass in Motion**
- **Changing Molecules**



**Energy or  
Matter**

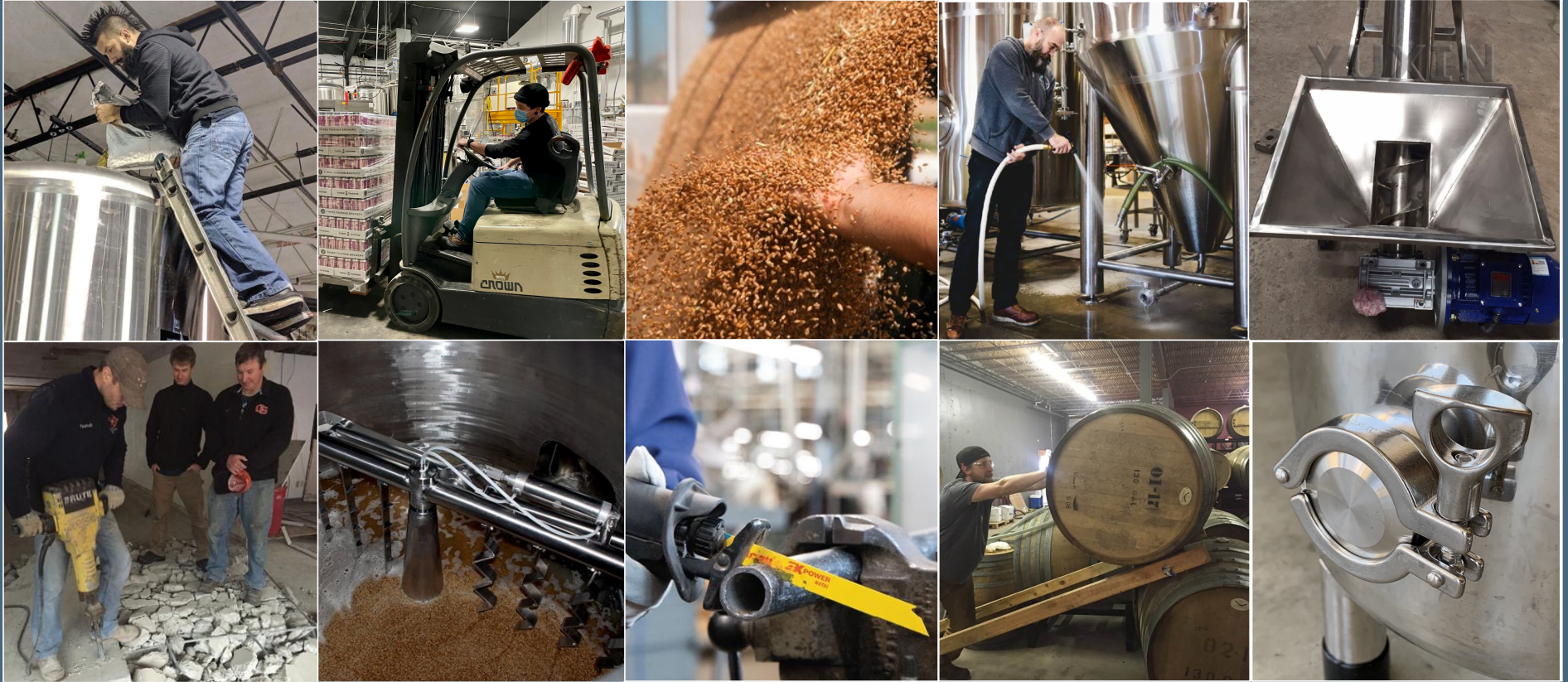
**Moving,  
Changing**

**Can be  
Hazardous**

CLASSICAL SAFETY TERM	WHAT IS MOVING OR CHANGING?	HAZARDOUS ENERGY FOUND IN A BREWERY
PHYSICAL	Matter (mass) moving	Mechanical (movement, pressure, tension), Gravitational, Sound Vibrational, Thermal
	Energy (electrons)	Electrical
	EM waves (electric and magnetic fields, photons)	Radiation
CHEMICAL	Bonds (electrons)	Chemical, Fire
BIOLOGICAL	Bonds (electrons)	Biochemical, Infectious
PSYCHOSOCIAL	Bonds (electrons)	Intoxicants, Neurodiversity, Conflict



# MECHANICAL ENERGY IN THE BREWERY



# Avoiding Hazardous Energy Transfer

## PREVENTION

- ELIMINATION
- SUBSTITUTION
- THOUGHTS AND ACTIONS
  - SAFE WORK
  - POLICIES
  - TRAINING

## PROTECTION

- SHIELDING
  - ISOLATION AND BARRIERS
  - DISTANCE
- TIME
- RESTRAINT

# Avoiding Hazardous Human Energy

## PREVENTION

- ELIMINATION
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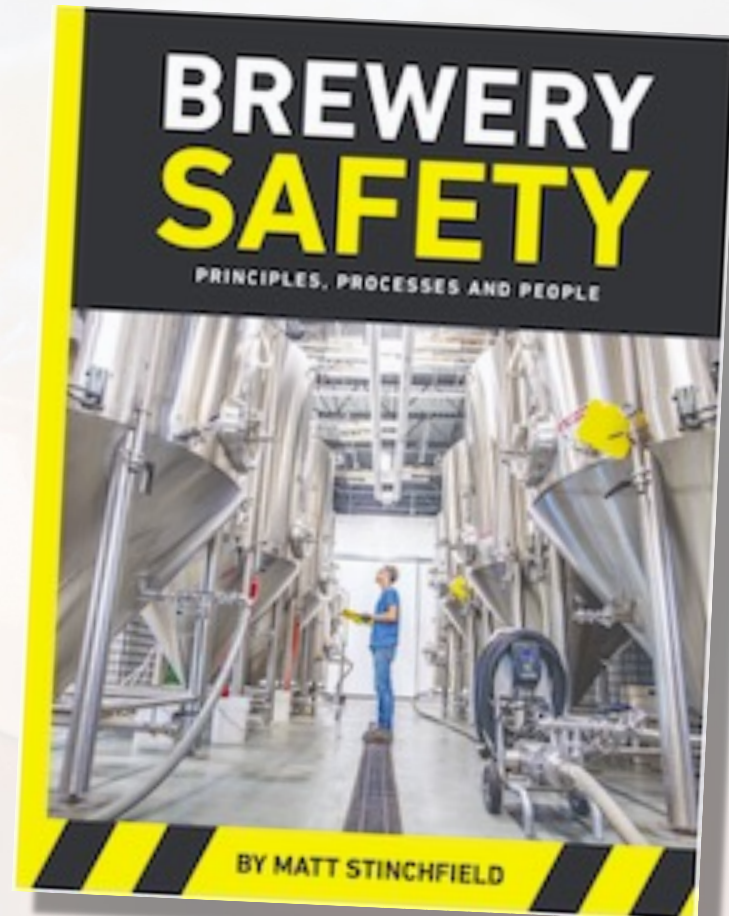
## PROTECTION

- SHIELDING
  - ISOLATION AND BARRIERS
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**BA Collab Hour Special**  
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*BREWERY SAFETY: PRINCIPLES,  
PROCESSES, AND PEOPLE*

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