

# YPSW 2018 Annual Meeting

## *Incorporating OHS into the Design of Workplaces and Processes*



John A.  
Pendergrass, Jr  
1925 - 2017



Howard L.  
Kusnetz  
1929 - 2017

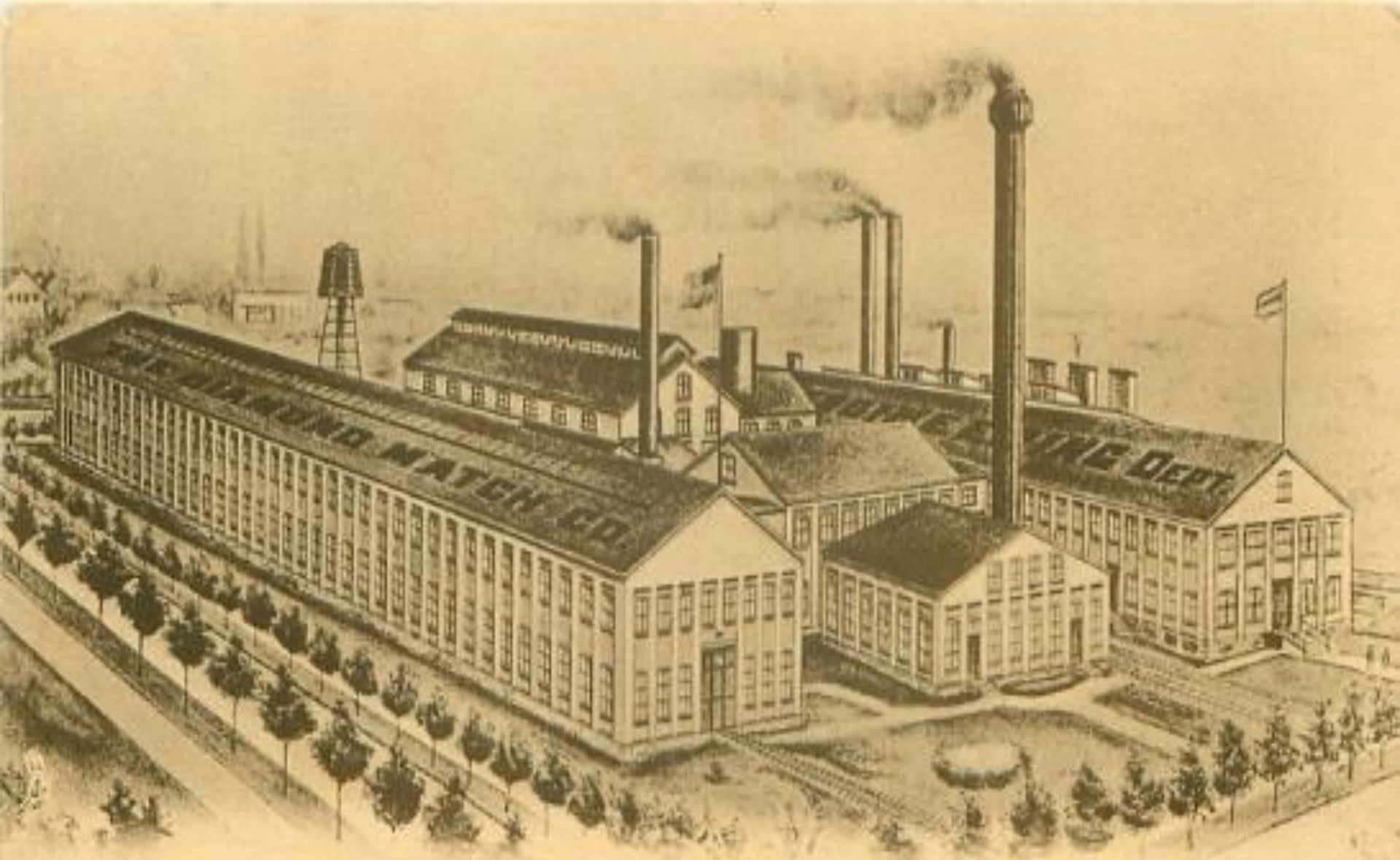


Howard E.  
Ayer  
1924 - 2017



**Yuma Pacific  
Southwest  
Section**





BARBERTON, OHIO. DIAMOND MATCH CO. — ENGINEERING DEPT.

Werthen & Son.





**Match makers with  
phossy jaws**

**Osteonecrotic mandible  
Hunterian Museum RCS**



*“Phossy jaw is a very distressing form of industrial disease. It comes from breathing the fumes of white or yellow phosphorus, which gives off fumes at room temperature, or from putting into the mouth food or gum or fingers smeared with phosphorus. The phosphorus penetrates into a defective tooth and down through the roots to the jawbone, killing the tissue cells which then become the prey of suppurative germs from the mouth, and abscesses form.”*

## EXPLORING THE DANGEROUS TRADES

*The Autobiography  
of*

ALICE HAMILTON, M.D.



*With Illustrations by Norah Hamilton*

AN ATLANTIC MONTHLY PRESS BOOK

LITTLE, BROWN AND COMPANY · BOSTON

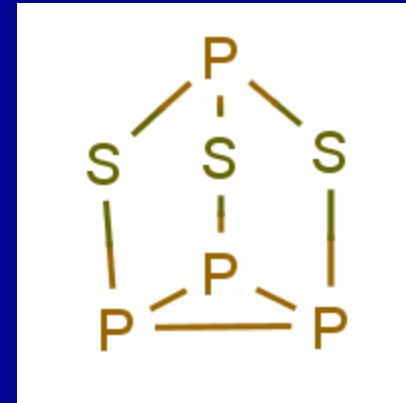
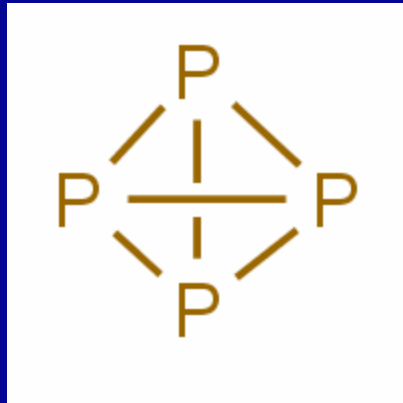
1943

*“The jaw swells and the pain is intense, for the suppuration is held in by the tight covering of the bone and cannot escape, except through a surgical operation or through a fistula boring to the surface. Sometimes the abscess forms in the upper jaw and works up into the orbit, causing the loss of an eye. In severe cases one lower jawbone may have to be removed. The scars and contractures left after recovery were terribly disfiguring, and led some women to commit suicide.”*

# Making the Case



# Match Making Process



White Phosphorus

Phosphorus Sesquisulfide



WASHINGTON

ONE WAY

WASHINGTON

ONE WAY

NYU

STONY BLDG  
UNIVERSITY

UNIVERSITY

Yield sign

Person walking

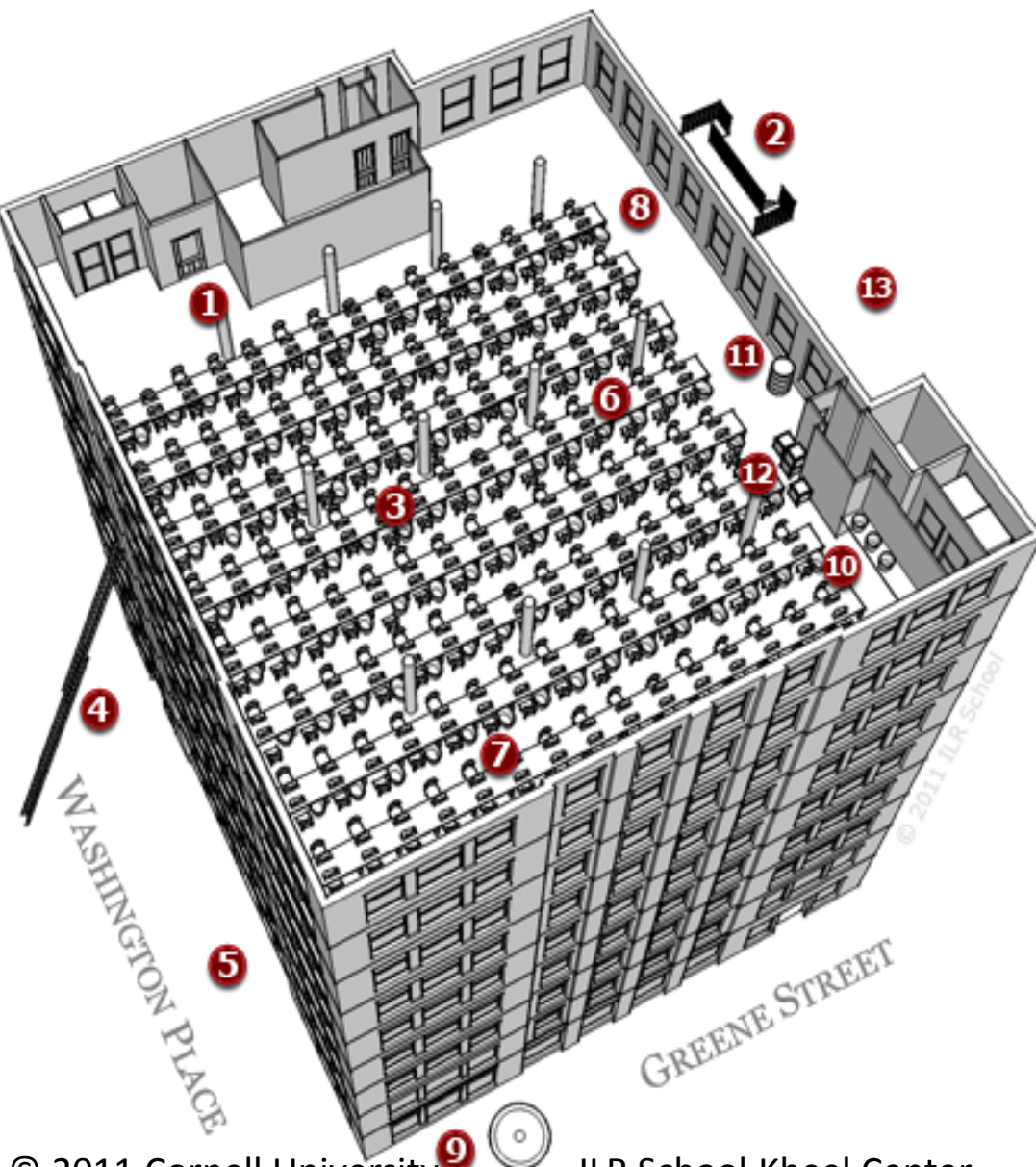
Person walking

Car





# What Went Wrong?



1. Locked door to the stair well
2. Rusty fire escape that collapsed
3. Cluttered work spaces
4. Short ladders only reached 6th floor
5. Not enough water pressure
6. Long wooden tables became obstacles
7. Wicker baskets full of scraps
8. Oily floors spread the fire quickly
9. Fire nets failed to catch jumpers
10. No sprinkler system, only pails of water
11. Flammable barrel of oil
12. Boxes crowding the exit
13. Lack of a required third staircase



# New York City Construction Codes

## Construction Codes

- General Provisions
- Building Code\*\*
- Energy Code
- Fuel Gas Code
- Mechanical Code
- Plumbing Code

## Other Codes

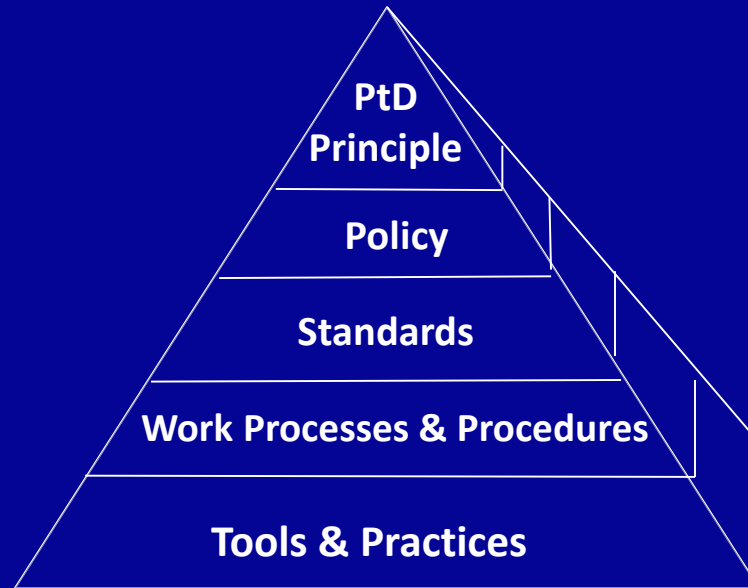
- Electrical Code
- Energy Conservation Code
- Fire Code



## \*\*Building Code

- CH3 – Use & Occupancy Class
- CH6 - Types of Construction
- CH7 – Fire & Smoke Protection Features
- CH8 – Interior Finishes
- CH9 – Fire Protection Systems
- CH10 – Means of Egress
- CH15 – Roof Assemblies & Rooftop Structures
- CH27 – Electrical
- CH30 – Elevators & Conveying Systems

# The Framework



***“Eliminating hazards and minimizing risks early in the design or redesign process, and incorporating methods of safe design into all phases of hazard and risk mitigation is one of the best ways to prevent occupational injuries, illnesses, and fatalities.”*** DHHS (NIOSH) Pub. No. 2011-121

<b>Thursday, January 18, 2018</b>		
<b>8:30-8:45</b>	<b>WELCOME</b>	<b>Robert Lieckfield</b> <b>YPSW President</b>
	<b>ANNOUNCEMENTS</b>	<b>Anna Davis</b> <b>YPSW Secretary-Treasurer</b>
<b>8:45 – 9:15</b>	<b>Program Introduction</b>	<b>Frank Renshaw</b> <b>YPSW President-Elect</b>
<b>9:15 – 10:00</b>	<b>National Prevention through Design Initiative</b>	<b>Jonathan Bach</b> <b>NIOSH</b>
<b>10:00 – 10:30</b>	<b>BREAK</b>	
<b>10:30 – 11:15</b>	<b>A Pharmaceutical Company’s dEHSign Process</b>	<b>Jonathan Gast</b> <b>Amgen Inc.</b>
<b>11:15 – 12:00</b>	<b>Inherently Safer Chemical Processes</b>	<b>Dennis Hendershot</b> <b>Process Safety Consultant</b>
<b>12:00 – 1:00</b>	<b>LUNCH</b>	<b>Harbor Room</b>
<b>1:00 – 5:00</b>	<b>Tour of Scripps Institute of Oceanography</b>	<b>Allyson Long</b> <b>Scripps Institute of Oceanography</b>
<b>5:30</b>	<b>Hospitality Suite Opens</b>	

<b>Friday, January 19, 2018</b>		
<b>8:30-8:45</b>	<b>WELCOME</b>	<b>Robert Lieckfield</b> <b>YPSW President</b>
	<b>ANNOUNCEMENTS</b>	<b>Anna Davis</b> <b>YPSW Secretary-Treasurer</b>
<b>8:45 – 9:30</b>	<b>OHS in the Design and Construction of Projects</b>	<b>John Gambatese</b> <b>Oregon State University</b>
<b>9:30 – 10:15</b>	<b>Assessing and Controlling Risks from Dermal Exposures</b>	<b>Jennifer Sahmel</b> <b>Insight Exposure and Risk Sciences</b>
<b>10:15 – 10:30</b>	<b>BREAK</b>	
<b>10:30 – 10:50</b>	<b>AIHA Update</b>	<b>Larry Sloan</b> <b>AIHA Chief Executive Officer</b>
<b>10:50 – 11:10</b>	<b>ACGIH Update</b>	<b>Audrey Lawrence</b> <b>ACGIH Director</b>
<b>11:10 – 12:00</b>	<b>The Opioid Crisis</b>	<b>John Howard</b> <b>NIOSH Director</b>
<b>12:00 – 1:00</b>	<b>LUNCH</b>	<b>Harbor Room</b>

<b>Friday, January 19, 2018</b>		
<b>1:00 – 1:20</b>	<b>ABIH Update</b>	<b>David Roskelley ABIH Past Chairman</b>
<b>1:20 – 1:35</b>	<b>AIHA Initiatives &amp; Accomplishments</b>	<b>Steven Lacey AIHA Past President</b>
<b>1:35 – 2:00</b>	<b>Regulatory Update</b>	<b>Mark Ames AIHA Government Affairs Dir.</b>
<b>2:00 – 2:45</b>	<b>Implications of the Frank R. Lautenberg Chemical Safety for the 21<sup>st</sup> Century Act</b>	<b>Marisa Kreider Cardno ChemRisk</b>
<b>2:45 – 3:00</b>	<b>BREAK</b>	
<b>3:00 – 3:45</b>	<b>Preventing Occupational Hearing Loss in a Global Manufacturing Network</b>	<b>John Mulhausen 3M</b>
<b>3:45 – 4:30</b>	<b>Safe and Lean – An Ergonomics Strategy in Commercial Vehicle Manufacturing</b>	<b>Tom Slavin Cardno ChemRisk</b>
<b>4:30 – 4:45</b>	<b>CLAYTON AWARD PRESENTATION</b>	<b>Robert Lieckfield YPSW President</b>
<b>4:45 – 5:00</b>	<b>INSTALLATION OF NEW OFFICERS WRAP-UP and PASSING OF GAVEL</b>	<b>Robert Lieckfield YPSW President</b>