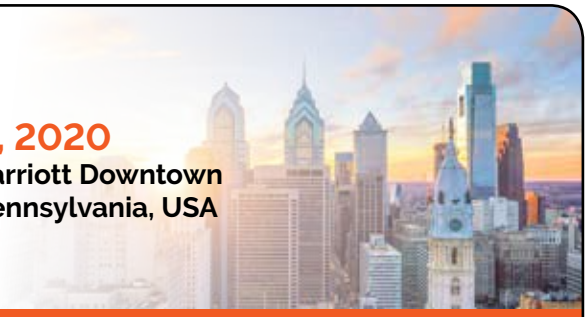
Congress on
SAFETY 2020
in Engineering and Industry

JUNE 21-24, 2020
Philadelphia Marriott Downtown
Philadelphia, Pennsylvania, USA



Schedule At-A-Glance

The Congress on Safety in Engineering and Industry 2020 (Safety Congress 2020) will feature a broad cross-section of subject matter experts and thought leaders representing industry, regulatory organizations, and academia to share best practices and perspectives on the future of safety management. Keynote and plenary speakers will introduce broad issues in their presentations followed by breakout sessions to allow attendees the opportunity to dive deeply into topics. Breakout sessions fall into three tracks on the themes of A) Management and Systems, B) Technology and Techniques, and C) Human Resources.

Sunday, June 21, 2020	
The congress will kick off with professional development, workshops, and tours.	
Day 1: Monday, June 22, 2020	
8:00 a.m.	Opening Remarks
8:15 a.m.	Keynote: **The Importance of Safety and Value of Networking across Sectors**
9:15 a.m.	Plenary Session
The Value Proposition for Safety The engineering, construction, manufacturing, and transportation industries continue to experience significant operational and process safety incidents, despite having made great strides to improve safety. This is especially true in the construction industry, which when compared to other work industries, appears to have a disproportionate number of worker injuries and fatalities. Current safety management knowledge and concepts indicate a need to start addressing safety during planning and design. Hazard identification along with risk assessment and mitigation play a big part in injury and fatality prevention. Developing an overarching, comprehensive safety program requires forethought and planning. Using the hierarchy of controls as a starting point, this presentation outlines recommended practices for such a program that takes advantage of both design and construction to promote safe work sites.	
11:00 a.m.	Breakout Sessions
A. The Role of Health, Safety, and Environmental (HSE) Management Systems **B. Integration of Safety in Regulatory Frameworks** **C. Leadership Development**	
12:30 p.m.	Lunch on Own
1:30 p.m.	Breakout Sessions
A. University Safety Culture Best Practices & Opportunities, Part I **B. Effectively Managing Complex Systems** **C. Leadership for Today's 24/7 Problems**	

3:30 p.m.	Breakout Sessions
A. Funding Effective Partnerships for Improving Safety **B. The Role of Unmanned Aircraft Systems (UAS) in Enhancing Safety** **C. The Day We Will Never Forget—Safety Leadership on a Personal Level**	
5:00 p.m.	Reception
Day 2: Tuesday, June 23, 2020	
8:00 a.m.	Day 1 Recap
8:15 a.m.	Plenary Session
Executing an Effective Risk Management Program Risk management is critical to all industries, as well as laboratory environments, but unfortunately it sometimes requires a disaster to remind us of this fact. Each and every individual is in the risk management business, and each person must take responsibility to identify and recognize the elements of risk in their respective operations or activities. No one can afford to ignore the risks in their activities or assume that someone else will address the risk exposures. Once risk is identified, we all have a responsibility to understand the consequences associated with the failure to address the risk by finding economically viable solutions that either eliminate the risk, mitigate it, or find a way to manage it to an acceptable level.	
10:00 a.m.	Breakout Sessions
A. Suicide and Fatigue in Construction and Other Industries—Something We Need to Talk About **B. Incident Investigation** **C. Identifying Critical Issues during the Review of Lift Plans for Cranes and Alternative Lifting Methods**	
11:30 a.m.	Lunch on Own

(Continued on back.)

1:00 p.m.	Plenary Session

The Role of Technology & Innovation in Improving Safety Performance
Over the years we have seen a dramatic improvement in safety (and environmental) performance through the implementation of new technologies. While some of these technologies help mitigate the outcome of an incident such as seatbelts and airbags, others help prevent the incident or take the worker out of a harmful situation. We have developed vehicles that can be remotely driven or piloted to conduct inspections and replace workers at height and in hazmat gear. Innovations such as robots to maneuver heavy equipment can help with safety and quality in manufacturing. What innovations are in the works and what should we expect to see in the future that will help improve safety in our working environment? We also must ask, what new risk might we introduce with these new technologies?

2:30 p.m.	Young Professional & Student Session, Coincides with Coffee Break
3:30 p.m.	Breakout Sessions

A. Preparing University Students for Industry, Part II
B. Case Studies Showing Challenges from the Past
C. Interfacing Workers and Machinery in an Industrial Environment

Day 3: June 24, 2020	
8:00 a.m.	Day 2 Recap
8:15 a.m.	Plenary Session

Leading the Future of Safety by Learning from the Past
Whether faced with changing demographics in the workplace or steady-state operations, all industries are faced with the similar challenge of how to more effectively capture learnings from past safety incidents and apply them to future activities. Lessons learned from incidents and near misses, either from inside or outside an organization, must be shared broadly with others to help avoid their recurrence elsewhere. From the perspective of safety, this necessity applies across all industry and engineering sectors as there is much to be learned from each other. This session will share learnings from prior incidents, as well as some of the best practices in training a new workforce based on lessons from the past.

10:00 a.m.	Breakout Sessions

A. Safety through Engineering Design
B. The Role of More Effective Data Management
C. Risk Identification and Tolerance

11:45 p.m.	Event Wrap-up and Closing Remarks