

**Hilton Americas
Houston, TX
Room 339 AB
Thursday, April 5, 2019**

This event is open exclusively to terminal company employees, providing a unique forum for operators to share ideas and learn from their peers. ILTA will provide breakfast and lunch. ILTA will also host a networking reception immediately following the event for all symposium participants and members of ILTA's Operations Council, which will meet on Friday, April 5. To register online, visit ILTA's website at www.ilta.org.

7:00 a.m.

Attendee Check-in & Breakfast- Room 337AB

8:00 a.m.

Welcome and Introductions - Room 339 AB

Brian Miller, Marathon Petroleum Company (Chair of the ILTA Operations Council) & Peter Lidiak, ILTA Vice President of Government Affairs

8:15 a.m.

A Bad Day – Why ILTA Started TOPS - Room 339 AB

George Edwards, Flint Hills Resources

This presentation leads off the day with a discussion of why ILTA offers the Terminal Operating Practices Symposium.

In 2004, George survived a significant event at a non-Flint Hills Resources facility caused by a 1,000-gallon atmospheric storage tank over-pressuring and failing catastrophically. While no fatalities resulted, several people, including George, were lucky to survive. George was only about 40 feet away from the tank when it failed. Local fire, medical and law enforcement personnel jointly responded. A nearby highway and airport were temporarily closed. Local and regional media covered the event, which significantly damaged property and disrupted the product supply chain for the following year.

This presentation focuses on selected key points that emerged from the incident: normalization of deviation, hazard recognition, management of change and process safety for non-Process Safety Management covered processes. These events impacted more than

the people on-site. Families, friends and co-workers were all affected—many for years.

9:15 a.m.

Rail Car Release - Room 339 AB

Ron McClary, Tidewater Terminal Company

This presentation discusses the causal factors and safety measures that could have prevented a rail car diesel spill. The presentation will focus on eliminating ambiguous operating procedures, timely assigning of critical operations, proper PPE and operations area shelter, and the need for overfill protection.

9:45 a.m.

Is There a Need for Pressure Transmitters on Vapor Lines? - Room 339 AB

Cheryl Tate and Marty Summers, Energy Transfer Partners

This presentation focuses on preventing uncontrolled loading through PLC program changes, correcting PLC program faults, and whether installing a pressure transmitter on all vapor lines is a worthwhile investment.

10:15 a.m.

Morning Break

10:45 a.m.

PANEL – Avoiding Storage Tank Overfills - Room 339 AB

Well, Did You Consider This? (A near overfill event on an open roof tank)

Mark Kachelmyer, Kinder Morgan Corporation

Streamlining the High-Level Alarm Setpoint Process

Heather Ogg, Marathon Petroleum Company

Tank Secondary Seal Exposure

Gilbert Betancourt, Phillips 66

A panel discusses the importance of analyzing tanks after major repairs/alterations, identifying limiting factors for filling tanks, and ensuring proper checks and balances are in place to identify deficiencies and ensure tanks are in a reliable condition before being returned to operations.

APRIL 4, 2019 | HOUSTON, TEXAS

11:45 a.m. **The Importance of Pre-Startup Checkouts - Room 339 AB**
Dan Clemens, Flint Hills Resources

This presentation covers construction quality control, considering a full range of outcomes when developing and commissioning pre-startup safety reviews, hazard recognition of reverse flow scenarios, and system checks to identify hard to find failure modes.

12:15 p.m. Lunch- Room 337 AB

1:15 p.m. **Assurance of Terminal/Fleet Safety Barriers - Lessons from a Light Product Terminal Fire & Explosion - Room 339 AB**
John Roark and Ed Cimaroli, Andeavor Logistics

In an effort to improve safety for all, Andeavor takes a look at the results of an investigation into a significant fire and explosion during the process of loading a third-party carrier trailer at an Andeavor terminal. As is common with many industrial accidents, it was determined that multiple intended safeguards were ineffective in preventing the incident from occurring and mitigating both the incident's scale and consequence.

The presentation provides a high-level overview of the SPPR Light Products Terminal, the sequence of events leading up to incident, causal and contributing factors, actions taken in response, and recommendations to other operators.

2:15 p.m. **Importance and Value of a Good Fire System Inspection Program - Room 339 AB**
Mike Buff and Tom Lonyo, Marathon Petroleum Company

A presentation looks at the importance of terminals possessing a comprehensive fire system inspection process. Annual flow testing of foam systems reduces long-term maintenance costs, and it ensures a system will activate and flow as designed during an actual event. Failure to possess and implement a process for inspecting fire suppression systems can negatively impact business operations, escalate repair costs and in some cases result in regulatory citations.

2:45 p.m. Afternoon Break

3:15 p.m. **Atmospheric storage tank venting hazard awareness - Room 339 AB**

Jeff Flynn, Flint Hills Resources

This presentation discusses several events in which ventilation was compromised resulting in damage to the tanks. Topics include how small amounts of pressure and vacuum can result in significant forces on a tank, identifying subtle sources of over and under pressure in atmospheric storage tanks, and why open tank vents are critical pressure relieving devices that shouldn't be taken for granted.

3:45 p.m. **Utilization of Infrared and Optical Gas Imaging Cameras - Room 339 AB**

Jon Wills, Marathon Petroleum Company

This presentation highlights the utilization of an infrared optical gas imaging camera (FLIR Camera) to assist in project work, incident investigation, facility maintenance and leak detection. Topics covered include the benefits of leveraging emerging technology to protect the environment, the value and importance of establishing an inspection program, and promoting a safe work environment for drivers and operators.

4:15 p.m. **Recognizing Hazards when Working on Active Assets - Room 339 AB**

Brad Stubbe, Flint Hills Resources

This presentation discusses a four-pronged approach to assist front-line personnel and supervisors with understanding hazards when working on live assets, recognizing possible negative outcomes, owning decisions and actions, and controlling hazards.

4:45 p.m. **Pump Seal Failures and Mitigation Discussion - Room 339 AB**

Matthew Vick, Marathon Petroleum Company

This presentation covers pump seal failures that result in unplanned downtime and loss of primary containment of finished product and their impact to operations. Topics include various pump seal designs and their associated failure mechanisms, maintenance strategies and monitoring techniques to identify, prevent or eliminate failures,

predicting pump seal failure, and improved monitoring to reduce releases.

5:15 p.m.

Lesson from Harvey; Impact of Tank Level on Roof Drain Capacity - Room 339 AB

Paul Rady and Chris Vogel, Phillips 66

This presentation looks at the impact the level of product in a tank has on the capacity and effectiveness of the roof drain system and what can be done to prevent a product release during a rain event.

The presentation discusses rainfall associated with Hurricane Harvey, which caused water to accumulate on top of several tanks at the Phillips 66 Pasadena Terminal and through a series of events resulted in gasoline draining off the roof and into secondary containment through the open water drainage system.

5:45 p.m.

Wrap Up

6:00 p.m.

Symposium Reception - Room 338

This 90-minute, ILTA-hosted networking reception will take place at the hotel.