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<td>7:30 am - 8:30 am</td>
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| 8:35 am - 8:50 am| WELCOME: OPENING REMARKS AND SAFETY MOMENT  
Conference Co-Chairs: John Pachuta, Sunoco Logistics Partners L.P.; Earl Crochet, Kinder Morgan; Rich Davis, Flexitallic; David Bayreuther, Metso |
| 8:50 am - 9:20 am| SESSION K1: KEYNOTE—US ENERGY MARKETS: KEY TRENDS AND OUTLOOK | Keynote Presented by Equity Engineering  
Speaker: Bryan Just, Sr. Economic Advisor, American Petroleum Institute |
| 9:20 am - 10:15 am| SESSION K2: KEYNOTE—“JUST A SECOND AGO...” | Keynote Presented by Equity Engineering  
Speaker: Brad Livingston, Professional Motivational Safety Awareness Speaker |
| 10:15 am - 10:40 am| MORNING REFRESHMENT BREAK |
| 10:40 am - 12:00 pm| TANKS | SESSION A1 |
|                  | A1 A - Tank Pads and Corrosion—Your First Line of Defense  
Moderator: John Pachuta, Sunoco Logistics Partners L.P.  
Speaker: Louis Koszewski, US Tank Protectors, Inc.  
This presentation covers the history of tank pads including sand, concrete, asphalt and other types used over the last 50 + years. Discussion will also touch upon the new use of inhibitors to slow corrosion rates. The historic use of cathodic protection and most recent use of corrosion inhibitors, in conjunction with tank pads, will be covered. The tank pads ability to prevent soil side corrosion will be discussed as well. |
|                  | A1 B - What a Difference a Proper Tank Foundation Makes  
Moderator: Nelson Acosta, HMT Inspection  
Speaker: Idamarie Edmunds, HMT Inspection  
This presentation discusses the positive attributes of installing a proper tank foundation having a suitable liner, leak detection and impressed current. It also provides a cost analysis of |
| 10:40 am - 12:00 pm| VALVES & PIPING | SESSION B1 |
|                  | B1 A - Standards and Training for enhanced Safety: Sealing Device Technology for Valves and Pipelines  
Speaker: Henri Azibert, FSA  
The Fluid Sealing Association (FSA) is recognized as gas and fluid sealing experts with real and relevant industry, equipment, environmental, regulatory, and application knowledge which provides resources used in standards development, subject matter review, and educational safety and training programs. This presentation will focus on several areas of standard development, safety and training for valves and pipes. |
|                  | B1 B - The Hazards of Horizontal-Stem Linear-Valve Operation  
Speaker: Greg Johnson, President, United Valves  
Why are there potential problems when gate valves are installed in the stem-horizontal orientation? The answer lies in machining processes, valve standards & tolerances and testing techniques. This presentation will discuss all of these points as well as cite some ways to avoid the problem. |
| 10:40 am - 12:00 pm| REFINERY EQUIPMENT | SESSION C1 |
|                  | C1 A - Cryogenic Storage Tanks  
Moderator: George Morovich, Tank and Environmental Technologies  
Speaker: Rick Simmons, Bechtel Corporation  
This presentation provides an overview of cryogenic storage tank systems and addresses construction techniques along with the potential safety/hazards associated with cryogenic storage tank systems. Covered are cryogenic storage tanks with focus on LNG storage and transfer. Other low-temperature and cryogenic liquid storage is addressed, as well as base load and peak shaver storage. Also included is the history of LNG storage, tank safety, tank types and sizes, applicable codes and standards (both American and European), and concepts for LNG storage tanks. |
The possible ramifications of stem horizontal installation low fugitive emissions performance will also be discussed.

C1 B - Next Generation of Compliance Document and EPA Enforcement Target: Storage Vessels
Moderator: Morris Kline, Caldwell Tanks, Inc.
Speaker: Mitchell McBrayer, Sage ATC Environmental Consulting LLC
This presentation covers strategies and methods for storage tank operators to ensure compliance with the EPA’s new Next Generation Compliance document and expanded National Enforcement Initiative (NEI). EPA’s new initiative has significant impact on hazardous air pollutant (HAP) storage tanks in a wide variety of industries. If not corrected, design flaws, inadequate maintenance, and deficient tank monitoring may cost your facility big money. In order to help minimize the costs associated with non-compliance and in achieving compliance, this presentation will investigate the five areas of EPA’s strategy, relate them to the current state of tanks, and examine potential strategies that might be used to better estimate and control excessive air emissions from storage tanks.

Wednesday, October 12, 2016 continued on next page
# SESSION A3

**A3 A - Quantitative and Qualitative Impacts of RTR on Tanks**  
Moderator: Morris Kline, Caldwell Tanks  
Speaker: Jessica Little, Sage ATC  
This presentation summarizes both qualitative and quantitative regulatory tank compliance gaps identified through numerous Petroleum Refinery Sector Rule (MACT RTR) assessments. On December 1st, 2015, the finalized MACT RTR was published. This regulatory overhaul will force capital expenditures across the industry, especially for tank operators. This presentation is a case study which summarizes both qualitative and quantitative regulatory tank compliance gaps identified through numerous MACT RTR gap assessments for refineries in the U.S. The goal of this presentation is to convey early industry trends for RSR tank compliance.

**A3 B - AST Floating Roof Problems, Solutions, and Design**  
Moderator: George Morovich, Tank and Environmental Technologies  
Speaker: Phil Myers, PEMY Consulting  
This presentation will cover problems that cause aboveground storage tank floating roofs to sink, as observed by AST owner-operators and consultants. Presented will be the steps to take to prevent these problems from occurring at your terminal or facility. How to perform floating roof risk assessments will be presented. This presentation will also convey how to properly check floating roof design and what design details must be incorporated in order to minimize the potential for roof-sinking problems.

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# SESSION B3

**Session B2 - Continued**  
Speaker: Giang Dang, Flexitallic Cont. (4 hours)

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# SESSION C3

**C3 A - Consequential Fatigue Failure of Above Ground Terminal Piping**  
Speaker: John Aumuller, P. Eng., M. Sc., MISTRAS Group  
To respond to regulator requests for better access to pipeline systems, owners have revised their long established design practices by relocating below grade piping systems to above ground locations in usually in pipe racks.

A case study will be presented, illustrating the unexpected consequences resulting from this change. Piping systems that were once implicitly protected from dynamic loading events, when they were located below ground, are now exposed to dynamic loads that occur from the normal cyclic operation of these systems.

**C3 B: In-pipe Turbine Generator as a Power Source for Remote Locations**  
Speaker: Bruce A. Kaiser, Lightning Masters  
Lightning Master’s In-pipe Generator (IPG) system provides electricity to isolated locations, lacking commercial power. It generates power without combustion of fossil fuels, using the flow of gas through the pipeline.
SESSION A4
A4 A: Recent Seismic Activity in the Central US: Effects on Storage Tanks and Infrastructure
Moderator: Dana Schmidt, STI-SPFA
Speaker: Rama Challa, Matrix PDM Engineering
This presentation reviews the October 2015 Cushing, Oklahoma magnitude 4.3 earthquake and its effects on the storage tanks and infrastructure there and examines the likelihood of similar occurrences in the future. Due to the huge storage capacity at Cushing, there is a compelling need to understand these seismic effects and determine their probabilities of occurrence. Also covered will be an innovative approach to rapidly assess seismic responses of a representative tank set. The results will be summarized and recommendations provided.

SESSION B4
Session B2 - Continued
Speaker: Giang Dang, Flexitallic Cont. (4 hours)

SESSION C4
Moderator: Joel Baulch, TEADIT
C4 A - Robotic Inline Inspection of Alyeska Valdez Marine Terminal Ballast and Oil Lines
Speaker: Jonathan Minder, Diakont
Diakont is scheduled to conduct robotic inline inspections of a ballast pipeline and two oil lines for Alyeska at the Valdez marine terminal. The scope of the project includes over 5000' of pipes range in diameter from 36” to 48”. The oil lines are buried onshore, connecting the berth to the storage tanks. The ballast pipeline runs from the shore along the berth over the water to the edge of the pier connecting the ship.

C4 B - Rapid Implementation of a Pipeline Leak Detection System without Existing Flow or Pressure Meters
Speaker: Adrian Kane, Atmos International
PHMSA rule changes and Assembly Bill 864 (mandating leak detection on Coastal Pipelines in California) require an increasing number of inter and intra-terminal pipelines to have leak detection. This paper presents a case study on the full implementation of a leak detection system on a 3 mile, 12” diesel pipeline running from a jetty to a tank farm at a fuel processing terminal that did not have existing flow and pressure instruments.
# CONFERENCE PROGRAM

## Thursday, October 13, 2016

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<td>REFINERY EQUIPMENT</td>
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<td>10:40 am - 12:00 pm</td>
<td>SESSION A5</td>
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<td>AS A - Influence of Wall Thickness and Insulation on the Breathing Requirements of Aboveground Storage Tanks</td>
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<td>Moderator: John Lieb, Tank Industry Consultants, Inc.</td>
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<td>Speakers: Dr. Michael Davies and Davide Moncalvo, Braunschweiger Flammenfilter GmbH</td>
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<td>In this presentation tank breathing requirements are calculated according to EN 14015 and API 2000 for different tank insulation and wall thicknesses in several weather scenarios. The results are then compared with those obtained with a more exact analytical model, accounting for mass transfer phenomena, for tanks filled entirely with hot gases or partially filled with liquids.</td>
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<td>This presentation will also stress the importance of insulating the tank to prevent tank collapses and product loss through excessive heating and cooling, instead of just painting the tank to prevent corrosion</td>
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<td>AS B - HJ3 Carbon Fiber Reinforced Polymer (CFRP) Technology for API 653 Equivalent Repairs</td>
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<td>Moderator: Ron Santellik, Westway Terminals</td>
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<td>Speaker: Olley Scholer, HJ3 Composite Technologies</td>
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<td>This presentation introduces a process for using carbon fiber reinforced polymers (CFRP) to restore structural integrity to aboveground storage tanks. Included are the pre-repair inspection, design of CFRP, qualification of CFRP materials, installation including QA/QC procedures, and post-installation inspection. The use of CFRP can restore tank strength lost to corrosion, for hoop stresses, pressures, high-temperature stress, and medium-term failures.</td>
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<td>12:00 pm - 1:10 pm</td>
<td>SESSION B5</td>
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<td>Moderator: Rich Davis, Flexitallic</td>
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<td>BS A - Fugitive Emissions: China Experience and Lessons Learned</td>
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<td></td>
<td>Speaker: Bronson Pate, Sage Industries—</td>
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<td>As emerging markets struggle with how to tackle VOC control, fugitive emissions from valves and other process equipment keeps rearing its ugly head. The authors will review historical information on uncontrolled facility VOC distributions in the US and Europe to give participants a re-cap of where plants in emerging markets may be starting from. Contributions of VOC from various sources will be contrasted to show why fugitive emissions remain a top focus of VOC control programs. Then, the latest low-emission valve specifications set by USEPA through its ever evolving VOC compliance program will be reviewed for OEMs and other participants. Finally, the authors will demonstrate an optimal fugitive emissions management or LDAR (leak detection and repair) program design which captures essential process information and uses a combination of detection techniques to achieve the most cost-effective level of loss prevention possible</td>
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<td>BS B - Motor Operated Valve Sticking Failures Reduction, Lean Six Sigma Project</td>
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<td>Speaker: Ahmad Alsawar, Saudi Aramco</td>
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<td>The sticking problems of the critical Motor Operated Valves are common in all Hydrocarbon and Chemical plants. The MOV’s are normally installed in the critical pipes and equipment and any failure will lead to major safety or reliability issues. Resolving the MOV’s sticking problems will result to production reliability and will avoid any related safety and environment problems.</td>
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<td>BS C - The Right Paint Reduces Project Delays</td>
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<td>Moderator: Amy Baxter, Enbridge Energy Company</td>
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<td>Speaker: James McDonald, Hempel Protective Coatings; Chris Watkins, WS Services</td>
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|                 | This presentation focuses on reducing delays by selecting the correct paint or lining system for the right climatic conditions, using qualified and experienced painting contractors. Traditional paint and lining systems are usually limited by minimum application temperatures of 50 °F or
SESSION A5

Moderator: Rich Davis, Flexitallic

A5 A - Influence of Wall Thickness and Insulation on the
result to production reliability and will avoid any related
environment and safety problems.

SESSION C5

Moderator: Mike Brockway, TCI Services, Inc.

C5 A - A Proactive Approach to Addressing Corrosion Under Insulation
above, which limits work days. By employing a paint or
lining system that can be used in freezing temperatures
and sweltering heat, specifications can be simplified and
project teams can be confident that weather delays will be
minimized, no matter what the season.

Moderator: John Lieb, Tank Industry Consultants

B5 A - Fugitive Emissions: China Experience and
Speakers: Dr. Michael Davies and Davide Moncalvo,
This presentation will explore the many factors to be
calculated according to EN 14015 and API 2000 for different tank insulation and wall thicknesses in several
review historical information on uncontrolled facility VOC
a re-cap of where plants in emerging markets may be
approach to dealing with CUI. Best inspection practices,
advanced engineering assessment solutions, including fitness-for-service and remaining life assessment, will be
addressed. For each specific scenario, the information
plan will be presented in detail.

Moderator: Amy Baxter, Enbridge Energy Company

Speakers: James McDonald, Hempel Protective Coatings; Chris Watkins, WS Services
This presentation focuses on reducing delays by selecting
Speakers: John Lieb, Tank Industry Consultants

EFFICIENT VALVE SELECTION

The sticking problems of the critical Motor Operated Valves
The MOV's are normally installed in the critical pipes and
materials, installation including QA/QC procedures, and post-installation inspection. The use of CFRP can restore
tank strength lost to corrosion, for hoop stresses,
reliability issues. Resolving the MOV's sticking problems will
result to production reliability and will avoid any related
environment and safety problems.

B6 A - Critical Check Valves - A Systematic Approach
Speaker: Phillip Garcia, PinnacleART
Have you identified your Critical Check Valves? Do
you have questions on the process? Join PinnacleART
representatives to gain insight on how operators are
utilizing piping integrity data to identify, document,
and implement Critical Check Valve programs using a
systematic approach.

B6 B - Hot Isostatic Pressed Valves in Refinery
Applications
Speaker: David Escobar, METSO Automation, Flow
Control
This presentation will explain applications and show
results where valves formed from powdered metal, and
valves internally clad with powered metal, were used in
challenging refinery services such as FCC.

SESSION C6

Moderator: Greg Johnson, United Valve

C6 A - New Gasket Technology
Speaker: Rich Davis, Flexitallic
Since developing the spiral wound gasket over 100 years
ago, we have maintained a rigorous development program
aimed at utilizing newer technologies in manufacturing
processes and techniques. This new gasket design was
developed with the targets of improving the spiral wound
gasket technology, preventing sticking, and reducing cost.

C6 B - API 6D Update
Speaker: Rick Faircloth, Cameron
This presentation will provide the technical updates on
the API 6D specification from the original publication in
August 2014 to include the latest Addendums 1 and
Addendum 2 revisions through June 2016.
### SESSION A7

**A7 A - Case Study on Relocating an Aboveground Storage Tank**  
**Moderator:** Marilyn Shores, Consultant  
**Speakers:** Mark Baker, Baker Consulting Group, Inc.; Warren Hall, A.R. Watson, Inc.  
This presentation is a case study of an aboveground storage tank owner who needed additional capacity for biodiesel. The owner had an underutilized tank that could easily be converted to biodiesel service. However, due to the facility layout, it was more cost effective to relocate the tank rather than build a new tank. Engineering and on-site challenges encountered during this project will be the focus of this presentation. This presentation includes time-lapse photography of the physical tank move from disassembly to reassembly in the new location. Often it is more cost effective to convert a tank from one service to another, rather than building additional tanks, even if it means relocating the in-service tank within the facility.

**A7 B - The Use of Drones/UAS Technology in Storage Tank Operations to Reduce Cost and Increase Safety**  
**Moderator:** Earl Crochet, Kinder Morgan  
**Speaker:** Aaron Cook, MISTRAS Group, Inc.  
Drones/UAS have come a long way in a short amount of time and are now a cost effective, safe and reliable tool. This presentation conveys how to take advantage of this new technology and how to effectively integrate it into your aboveground storage tank inspection program. Covered will be flying drones inside the tank and using them to evaluate floating roof seals, secondary containment, and other areas of the tank. This presentation will emphasize the increase in safety gained by reduced confined space entry and less frequent elevated work to be performed by your employees if this new robotics technology is used. This presentation will also cover drone data quality and how it is collected.

### SESSION B7

**Moderator:** Don Mears, Analytical Training Consultants  
**B7 A - Understanding Enhanced LDAR and Consent Decree Compliance for Valves**  
**Speaker:** Rodney Roth, Chersterton  
Enhanced Leak Detection and Repair (LDAR), along with consent decrees, provide a strong one-two punch that the EPA utilizes in their clean-air quest. This presentation will focus on the details of the typical consent decree as well as the LDAR portions of those decrees. It will also be demonstrated that sometimes there are not many options for the user/owner to take when stopping emissions from leaking valves.

**B7 B - Valve Fugitive Emission Performance in Service**  
**Speaker:** Richard Sobilo, BP North America  
Ever wonder how valves perform in the field? Do you have the hard data to prove it or just anecdotal information about this valve or that? How about condemning one instance? While we have struggled with that as well, fortunately our Environmental group had the foresight to add a field for the manufacturer in our LDAR database. Now we have on-line tracking of valve performance based upon fugitive emissions monitoring. This is a powerful tool in making decisions on initial purchase, maintenance and other life cycle activities.

### SESSION C7

**Moderator:** Ron Santelik, Westway Terminals  
**Speaker:** Erik Stark, Outokumpu Stainless AB  
This presentation covers the benefits and constrains of using duplex stainless steel in accordance with the consent decrees, provide a strong one-two punch that the EPA utilizes in their clean-air quest. This presentation will focus on the details of the typical consent decree as well as the LDAR portions of those decrees. It will also be demonstrated that sometimes there are not many options for the user/owner to take when stopping emissions from leaking valves.

**C7 A - The Possibilities With and Limitations of Duplex Stainless Steel**  
**Speaker:** Richard Sobilo, BP North America  
Enhanced Leak Detection and Repair (LDAR), along with consent decrees, provide a strong one-two punch that the EPA utilizes in their clean-air quest. This presentation will focus on the details of the typical consent decree as well as the LDAR portions of those decrees. It will also be demonstrated that sometimes there are not many options for the user/owner to take when stopping emissions from leaking valves.

**C7 B - Quarter Turn FE Testing is Coming**  
**Speaker:** Mitch Copland, United Valve  
Fugitive Emissions” is very close to complete acceptance by the API, Sub-committee on Piping & Valves” (SCOPV). The testing details, valves covered by the standard, and describe the differences between it and API 624, the linear valve FE test standard.

With the higher mechanical strength of duplex stainless steel comes the possibility to minimize the tank shell thickness. Duplex stainless steel also has good corrosion resistance which leads to reduced corrosion allowance and reduced usage of coatings.
SESSION A8

A8 A - Panel Discussion: Strange Stories and Unusual Tales
Moderator: Phil Myers, PEMY Consulting
Speakers: David Clark, Buckeye Partners L.P.; John Pachuta, Sunoco Logistics Partners L.P.; Marilyn Shores, Consultant; Ron Santelik, Westway Terminals
Operator-user panel members will present unusual and unplanned events that have occurred at their facilities which resulted in the necessity for AST and related equipment repairs. However, because of the unusual nature of these events, the successful repair procedures may not be documented and will probably never be required again. Our panel will reveal some ingenious, practical, and sometimes in-house quick fixes not seen in everyday aboveground storage tank operations.

SESSION B8

B8 A - Good Packing Installation Techniques for Fugitive Emission Service
Speaker: Joel Baulch, Teadit
Packing material is typically graphitic and of a very robust nature. Care must be taken at installation of this type of material and a protocol well above what is seen in general service conditions should be followed to ensure that the equipment will meet its intended performance levels. Furthermore, with requirements for warranties tied to equipment in FE service increasing, installation training for end users, rebuilders, installers, and OEMs is essential. This presentation seeks to cover many of the topics covered in a typical installation training event for FE packing.

B8 B - Quarter Turn FE Testing is Coming
Speaker: Mitch Copland, United Valve
FE testing to API standards has so far been restricted to only linear (multi-turn) valves. However, that will change soon as API 641, “Type Testing of Quarter-turn Valves for Fugitive Emissions” is very close to complete acceptance by the API, Sub-committee on Piping & Valves (SCOPV). The latest ballot had no negatives, but only a few comments to be addressed. This presentation will discuss the testing details, valves covered by the standard, and describe the differences between it and API 624, the linear valve FE test standard.

SESSION C8

No Session Scheduled.

SESSION A9

A9 A - PHMSA Audits of Tank Facilities
Moderator: Marilyn Shores, Consultant
Speaker: Jeremiah Konell, Explorer Pipeline
This presentation will cover how to prepare for a PHMSA audit and what they will want to see or what are their expectations. The information covered here is based on a recent PHMSA audit of their tank integrity.

SESSION B9

B9 A - Corrosion Protection of Shorted Pipe Casings Using VCIs
Speaker: Kelly Baker, Zerust
Pipe casings are used to protect carrier pipes under roadways, rail and waterways. The standard practice in the US today is to insert the carrier pipe inside a casing pipe to isolate the carrier from damage. Often, the two pipes can become metallically or electrolytically shorted, causing a potential increase in corrosion rates. NACE SP200-2014 has outlined a protection method using Vapor Corrosion Inhibitors. This presentation will outline this alternative to wax fills.
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<td>CLOSING RECEPTION &amp; NETWORKING</td>
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A9 B - Panel Discussion: How to Cope With Mother Nature’s Anger  
Moderator: David Clark, Buckeye Partners L.P.  
Speakers: John Pachuta, Sunoco Logistics Partners L.P.; Larry Foster, Marathon Petroleum Company  
This presentation is a panel discussion on the methods and best practices used to reduce the risk of damage to aboveground storage tanks and associated equipment located in areas susceptible to tornadoes, hurricanes, blizzards and other extremely high wind events.

B9 B - Trust BUT Verify with Positive Material Identification (PMI)  
Speaker: Don Mears  
This presentation will inform the QA/QC project managers as to how to: “Trust but Verify” Material Test Reports (MTR’s) by checking the “Material Chemistry” with a handheld X-ray Fluorescence (XRF) or Optical Emission Spectroscopy (OES) analyzers. This verification is to compare the MTR’s for all Piping, Valves & Fittings and all tank Component’s, so the “Heat Number” from the Mill’s MTR is qualified at the start of the project. This action can also provide complete records of “Material Chemistry Verification” for your Construction Quality Program. This requires operations and construction to “Verify” they are using the correct materials to “Mitigate Corporate Risk.”

No Session Scheduled.