### Wednesday, October 14th
* all times listed in Central

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 AM - 9:00 AM</td>
<td>Registration and Virtual Exhibit Viewing</td>
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<tr>
<td>9:00 AM - 9:10 AM</td>
<td><strong>Welcome:</strong> Opening Remarks and Safety Moment</td>
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<td>2020 Conference: Earl Crochet, Director of Engineering, Kinder Morgan</td>
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<td>Co-Chairs: Dave Cushman, General Manager, West Virginia Paint, LLC</td>
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<tr>
<td>9:10 AM - 9:50 AM</td>
<td><strong>Keynote 1</strong></td>
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<td>Moderator: TBD</td>
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<td>9:50 AM – 10:00 AM</td>
<td>Coffee Break and Exhibitor Appointments</td>
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<tr>
<td>10:00 AM – 10:45 AM</td>
<td><strong>Session 1:</strong> Tank NATECH and Storm Modelling</td>
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<td>Speaker: Brock Trotter, PEMY Consulting</td>
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<td>Moderator: George Morovich, Tank and Environmental Technologies, Inc.</td>
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<td><em>This presentation will discuss the developments within the API 656 committee, tank NATECH, hurricane preparedness and the other topics involved. The focus of this discussion will address hurricane risks and modelling for a design storm. Available standards such as ASCE 7-16 and others can be used to analyze the risk between many tanks simultaneous. This allows owners and operators to develop storm preparedness plans and allocate liquid inventory in a more strategic way.</em></td>
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<td>10:45 AM – 11:00 AM</td>
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Wednesday, October 14th

11:00 AM – 12:00 PM  
**Session 2:**  Considerations for Tank Jacking and Moving  
Speaker: Rama Challa, Matrix PDM Engineering  
Moderator: Marilyn Shores, Consultant  

*Storage tank terminal owners and operators sometimes have a need to raise the aboveground storage tanks to perform either repairs to the existing foundations or add additional shell courses to take advantage of added capacity. Similarly, ASTs are moved from one location to another within the terminal due to multiple reasons such as new foundations, help with schedule by performing foundation work and tank work concurrently or relocation due to reuse requirements on the property. When this work is performed, additional considerations need to be considered from an engineering analysis and constructability.*

12:00 PM – 1:00 PM  
Virtual Exhibition Viewing & Lunch Hour

1:00 PM – 1:45 PM  
**Session 4:**  Have the Right Venting Capacity? Looking at the Latest API 2000 Testing  
Speaker: Phil Myers, PEMY Consulting  
Moderator: Daniel Fleck, Kinder Morgan  

*Breather valves provide an important role in the safe operation of storage tanks, but the flow curves based on API 2000 may provide users with less venting capacity than is determined. Flow rates measured by 4 different vendors under identical conditions of inlet pressure and orifice diameter differ by -8.7% and +6.2%. These disparities cast doubt on the reliability of flow certification as a whole. These ideas, implications, testing protocol and moving forward will be discussed.*

1:45 PM – 2:00 PM  
Coffee Break and Exhibitor Appointments
Wednesday, October 14th

* all times listed in Central

2:00 PM – 3:00 PM  
**Session 5: Insulation Technology Overview**

**Speakers:**  
Saboura Rokhsari, Mascoat  
Dave Arnholt, Banks Industrial Group  

**Moderator:**  
Dave Cushman, West Virginia Paint, LLC

Attendees will learn how to employ Thermal Insulating Coatings by themselves and in conjunction with conventional insulation materials depending on the energy retention, maintenance, and personnel protection needs of certain facilities. The strengths and weaknesses of each criteria will be discussed, using real-world examples to give the audience a better understanding.

3:00 PM – 4:30 PM  
Virtual Exhibition Viewing & Happy Hour

Thursday, October 15th

8:00 AM - 9:00 AM  
Registration and Virtual Exhibit Viewing

9:00 AM - 9:10 AM  
**Welcome: Opening Remarks and Safety Moment**

2020 Conference  
Earl Crochet, Kinder Morgan  
Co-Chairs:  
Dave Cushman, West Virginia Paint, LLC

9:10 AM – 9:50 AM  
**Session 6: How A Series of Devastating Earthquakes in New Zealand Has Put the Spotlight on the US Approach to Constructing Liquid Storage Tanks**

**Speaker:**  
Michele Badker, Onguard LLC  
**Moderator:**  
Rama Challa, Matrix PDM Engineering

This talk will share the catastrophic New Zealand experiences, and discuss deficiencies in design, construction and certification of liquid storage tanks that have since been tackled in New Zealand but remain commonplace in the United States. At-risk states and the industries that drive their economy must address these deficiencies if they are to minimize the inevitable risk that earthquakes pose to lives, livelihoods and the environment, and avoid suffering the same fate as New Zealand only with potentially much, much more significant consequences.
Thursday, October 15th
* all times listed in Central

9:50 AM – 10:00 AM Coffee Break and Exhibitor Appointments

10:00 AM – 10:50 AM Session 7: What Exactly Are PHMSA Requirements For A Breakout Tank?
Speaker: Johnny Cornell, H.I.R. Technical Services
Moderator: Ron Santelik, Howard Energy Partners

Attention owners and operators of PHMSA regulated tanks and facilities. There are currently approximately 90 pipeline inspector positions spread across five regional offices and they will be actively auditing jurisdictional tank locations.

PHMSA has been training their inspectors and they know where to look for out-of-compliance issues such as but not limited to on-time inspections, following API 653 inspection report recommendations, record keeping, etc.

10:50 AM – 11:00 AM Coffee Break and Exhibitor Appointments

11:00 AM – 12:00 PM Session 8: Existing, Emerging and Eventual Technology; What do Tank Owners need or want?
Speaker: Earl Crochet, Kinder Morgan
Moderator: Brock Trotter, PEMY Consulting

The presentation will be one owners perspective on existing, new, and potential technology that a responsible tank Owner/Operator wants or needs. A few of the topics will include in-service inspection, both form the top and bottom; seal inspections, corrosion monitoring, and emission monitoring. The presentation will present some ongoing issues for Tank Owners and then discuss existing, emerging, and eventual technological answers.

Session 9: 2202 Lean Duplex Stainless Steel for Storage Tanks
Speaker: John Grocki, ArcelorMittal Industeel
Moderator: Matt VanAlsburg, Advance Tank and Construction

The lean duplex stainless steel 2202 (UNS S32202 ? 22%Cr, 2%Ni) was developed several years ago as a cost-effective alternative to the austenitic grade 304L and provides at least the same corrosion resistance and twice the yield strength. Today, this material is commonly used in the water, pulp & paper, chemicals and petroleum products industries. It is being selected for the construction of storage tanks and storage tank bottoms and process equipment.

12:00 PM – 1:00 PM Virtual Exhibition Viewing & Lunch
Thursday, October 15th
* all times listed in Central

1:00 PM – 1:45 PM

**Session 10:** A Review and Comparison of the STI SP001 and the API 653 AST Inspection Methods.

Speaker: Joe Mentzer, STI/SPFA

Moderator: Nelson Acosta, HMT Inspection

The presentation will review and compare the STI SP001 and the API 653 Aboveground Storage Tank (AST) inspection methods. Information will be presented about their histories, their differences and when is each applicable. The presentation will consider situations when one standard might have benefits over the other and will also explain what it takes to become a certified inspector for each process and maintain that certification.

1:45 PM – 2:00 PM

Coffee Break and Exhibitor Appointments

2:00 PM – 3:00 PM

**Session 11:** Updates to API-2350 Standard (Edition 5) for Overfill Prevention of Atmospheric Storage Tanks

Speaker: Richard Ireland, Emerson, Rosemount Tank Gauging

Moderator: Amy Baxter, Enbridge

There have many changes put forth through the release of Edition 5. Some parts of the standard have become less prescriptive while other parts or more tightly defined. These changes could impact the way storage companies embark upon or complete their own internal gap assessments to meet the standard.

**Session 12:** Why Do We Keep Blowing Things Up?

Speaker: Peter Williams, Concord Tank Corporation

Moderator: Daniel Fleck, Kinder Morgan

It seems like the oil industry has been in the news for all the wrong reasons. From refinery fires, to tank fires, to record breaking Russian oil spills. Is our industry getting out of control? This talk will look at recent incidents to highlight and discuss areas of concern.

3:00 PM – 4:30 PM

Virtual Exhibition Viewing & Happy Hour
## Friday, October 16th

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2020 Conference: Earl Crochet, Kinder Morgan  
Co-Chairs: Dave Cushman, West Virginia Paint, LLC |
| 9:10 AM – 9:55 AM | **Session 13:** Tank Coatings Failure: Lessons Learned from the DoD  
Speaker: Michael Harkin, FeO  
Moderator: Mark Kachelmyer, Kinder Morgan  
*This presentation focuses on the proactive approach of the Department of Defense’s POL tank storage community and discusses key lessons learned that would help avoid a major coatings failure for the API community.* |
| 9:50 AM – 10:00 AM | Coffee Break and Exhibitor Appointments                             |
| 10:00 AM – 10:50 AM | **Session 14:** Challenges of meetings technical code and OSH requirements in remote and Arctic Environments  
Speaker: Pierre Legault, Integrated Review Services  
Moderator: Mark Jordan, CB&I  
*Inspecting safely petroleum storage systems is critical to infrastructure owners and service providers alike. This presentation will explore working in challenging environments in Canada and how to ensure working from heights and confined spaces have been addressed. A review of the existing federal requirements and a comparison with US regulations will also be presented.* |
| 10:50 AM – 11:00 AM | Coffee Break and Exhibitor Appointments                             |
| 11:00 AM – 12:00 PM | **Session 15:** Comparison of VCI and CP Performance Using Floor Scan Data from Several 10-Year Old AST Floors  
Speaker: Rim Whited, MESA  
Moderator: Peter Williams, Concord Tank Corporation  
*This important research irrefutably addresses the long-standing Industry and Regulatory question of how AST floor soil-side corrosion control performance with VCI systems compares to CP systems. API 653 floor inspection data was analyzed to produce corrosion control effectiveness analysis on a group of (12) tanks that all had totally new steel floors installed, then were inspected (8-10) years later. VCI was used to control soil-side corrosion on approximately 50% of the tanks and CP was used on the other half.* |
Friday, October 16th
* all times listed in Central

11:00 AM – 12:00 PM  
**Session 16:** Maximizing Service Life of Protective Coatings and Linings in Petroleum Storage Tanks by utilizing a Comprehensive QA/QC Program

**Speaker:** Lake Barrett, KTA-Tator, Inc.
**Moderator:** Mike Brockway, TCI Services LLC

An overview of the means and methods to maximize the service life of internal linings and exterior coating systems for petroleum storage tanks. QC/QA responsibilities will be examined as part of a QMS program. Case studies will highlight the importance of detailed coating/lining specifications and surface preparation. Electronic methods of data collection will be demonstrated and how that data in conjunction with Industry Standards (NACE, ISO & SSPC) and accelerated lab testing can predict coating life expectancy.

12:00 PM – 1:00 PM  
Virtual Exhibition Viewing & Lunch

1:00 PM – 1:30 PM  
**Session 17:** Appendix U, How Does it Really Apply?

**Speaker:** Gary Mathis, TGR Industrial Services
**Moderator:** George Morovich, Tank and Environmental Technologies, Inc.

The presentation will have actual photos I have taken of the field process of qualifying the procedure, drawing the scan plan, and recording the welds. The Scanner, UT Machine and Calibration blocks will be shown for a visual demonstration.

1:30 PM – 1:45 PM  
Break

1:45 PM – 3:00 PM  
**Session 18:** Robotic Inspections

**Speaker:** Steven Trevino, SPRINT Robotics, and Veritank
**Moderator:** Earl Crochet, Kinder Morgan

API 653 In-service robotic inspections can be a challenging concept to address when deploying for the first time. SPRINT Robotics not for profit organization has released guidelines capturing the state of the art for in service robotic tank inspections with the intent of accelerating utilization and development.