

# 2020 API STORAGE TANK CONFERENCE & EXPO

October 14-16, 2020 / API Virtual Event Platform

SESSIONS	
Wednesday, October 14th	
8:00 AM - 9:00 AM <i>Central</i>	<b>Registration and Virtual Exhibit Viewing</b>
9:00 AM - 9:10 AM	<b>Welcome: Opening Remarks and Safety Moment</b> <b>2020 Conference Co-Chairs:</b> Earl Crochet, Director of Engineering, Kinder Morgan, Dave Cushman, General Manager, West Virginia Paint, LLC
9:10 AM - 9:50 AM	<b>Keynote 1</b> <b>Moderator: W. Mark Jordan</b>
9:50 AM – 10:00 AM	<b>Coffee Break and Exhibitor Appointment Scheduling</b>
10:00 AM – 10:45 AM	<b>Session 1: Tank NATECH and Storm Modelling</b> <b>Moderator: George Morovich</b> <i>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.</i> <b>Speaker: Brock Trotter, PEMY Consulting</b>
10:45 AM – 11:00 AM	<b>Coffee Break and Exhibitor Appointment Scheduling</b>
11:00 AM – 12:00 PM	<b>Session 2: Considerations for Tank Jacking and Moving</b> <b>Moderator: Marilyn Shores</b> <i>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</i>

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	<p><i>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.</i></p> <p><b>Speaker: Rama Challa, Matrix PDM Engineering</b></p> <p><b>Session 3: Safety Considerations for Ammonia Storage Tanks</b>  <b>Moderator: Joe Menzer</b>  <i>Ammonia storage is a critical component in a number of industries. Low temperature refrigerated Above Ground Storage Tanks are used for storing large volumes of Ammonia. This presentation covers the challenges inherent in Ammonia storage from safety perspectives and provides methods to mitigate them including engineered controls</i></p> <p><b>Speaker: Rama Challa, Matrix PDM Engineering</b></p>
12:00 PM – 1:00 PM	<b>Virtual Exhibition Viewing &amp; Lunch</b>
1:00 PM – 1:45 PM	<p><b>Session 4: Have the right venting capacity? Looking at the latest API 2000 testing</b>  <b>Moderator: Daniel Fleck</b>  <i>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.</i></p> <p><b>Speaker: Phil Myers, PEMY Consulting</b></p>
1:45 PM – 2:00 PM	<b>Coffee Break and Exhibitor Appointment Scheduling</b>
2:00 PM – 3:00 PM	<p><b>Session 5: Insulation Technology Overview</b>  <b>Moderator: Dave Cushman</b>  <i>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.</i></p> <p><b>Speaker: Saboura Rokhsari and Dave Arnholt</b></p>
3:00 PM – 4:30 PM	Virtual Exhibition Viewing & Happy Hour

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SESSIONS	
Thursday, October 15th	
8:00 AM - 9:00 AM <i>Central</i>	<b>Registration and Virtual Exhibit Viewing</b>
9:00 AM - 9:10 AM	<b>Welcome: Opening Remarks and Safety Moment</b> Co-Chairs
9:10 AM – 9:50 AM	<p><b>Session 6 Title: How A Series Of Devastating Earthquakes In New Zealand Has Put The Spotlight On The US Approach To Constructing Liquid Storage Tanks</b></p> <p><b>Moderator: Rama Challa</b></p> <p><i>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.</i></p> <p><b>Speaker: Michele Badker, Onguard LLC</b></p>
9:50 AM – 10:00 AM	<b>Coffee Break and Exhibitor Appointment Scheduling</b>
10:00 AM – 10:50 AM	<p><b>Session 7: What Exactly Are PHMSA Requirements For A Breakout Tank?</b></p> <p><b>Moderator: Ron Santelik</b></p> <p><i>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.</i></p> <p><b>Speaker: Johnny Cornell, H.I.R. Technical Services</b></p>

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10:50 AM – 11:00 AM	<b>Coffee Break and Exhibitor Appointment Scheduling</b>
11:00 AM – 12:00 PM	<p><b>Session 8: Existing, Emerging and Eventual Technology; What do Tank Owners need or want?</b>  <b>Moderator: Brock Trotter</b>  <i>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.</i>  <b>Speaker: Earl Crochet, Kinder Morgan</b></p> <p><b>Session 9: 2202 Lean Duplex Stainless Steel for Storage Tanks</b>  <b>Moderator: Matt VanAlsborg</b>  <i>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 &amp; paper, chemicals and petroleum products industries. It is being selected for the construction of storage tanks and storage tank bottoms and process equipment.</i>  <b>Speaker: John Grocki, ArcelorMittal Industeel</b></p>
12:00 PM – 1:00 PM	Virtual Exhibition Viewing & Lunch
1:00 PM – 1:45 PM	<p><b>Session 10: A Review and Comparison of the STI SP001 and the API 653 AST Inspection Methods.</b>  <b>Moderator: Nelson Acosta</b>  <i>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.</i>  <b>Speaker: Joe Mentzer, STI/SPFA</b></p>
1:45 PM – 2:00 PM	<b>Coffee Break and Exhibitor Appointment Scheduling</b>

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2:00 PM – 3:00 PM	<p><b>Session 11: Updates to API-2350 Standard (Edition 5) for Overfill Prevention of Atmospheric Storage Tanks</b>  <b>Moderator: Amy Baxter</b>  <i>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 they way storage companies embark upon or complete their own internal gap assessments to meet the standard.</i>  <b>Speaker: Richard Ireland, Emerson – Rosemount Tank Gauging</b></p> <p><b>Session 12: Why Do We Keep Blowing Things Up?</b>  <b>Moderator: Daniel Fleck</b>  <i>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.</i>  <b>Speaker: Peter Williams, Concord Tank Corporation</b></p>
3:00 PM – 4:30 PM	Virtual Exhibition Viewing & Happy Hour

<b>Friday, October 16th</b>	
<b>SESSIONS</b>	
8:00 AM - 9:00 AM <i>Central</i>	<b>Registration and Virtual Exhibit Viewing</b>
9:00 AM - 9:10 AM	<b>Welcome: Opening Remarks and Safety Moment</b> Co-Chairs
9:10 AM – 9:55 AM	<p><b>Session 13: Tank Coatings Failure: Lessons Learned from the DoD</b>  <b>Moderator: Mark Kachelmyer</b>  <i>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.</i>  <b>Speaker: Michael Harkin, FeO</b></p>

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9:50 AM – 10:00 AM	<b>Coffee Break and Exhibitor Appointment Scheduling</b>
10:00 AM – 10:50 AM	<p><b>Session 14: Challenges of meetings technical code and OSH requirements in remote and Arctic Environments</b>  <b>Moderator: Mark Jordan</b>  <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.</i>  <b>Speaker: Pierre Legault, Integrated Review Services</b></p>
10:50 AM – 11:00 AM	<b>Coffee Break and Exhibitor Appointment Scheduling</b>
11:00 AM – 12:00 PM	<p><b>Session 15: Comparison of VCI and CP Performance Using Floor Scan Data from Several 10-Year Old AST Floors</b>  <b>Moderator: Peter Williams</b>  <i>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.</i>  <b>Speaker: Rim Whited, MESA</b></p> <p><b>Session 16: Maximizing Service Life of Protective Coatings and Linings in Petroleum Storage Tanks by utilizing a Comprehensive QA/QC Program</b>  <b>Moderator: Mike Brockway</b>  <i>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 &amp; SSPC) and accelerated lab testing can predict coating life expectancy.</i>  <b>Speaker: Lake Barrett, KTA-Tator, Inc.</b></p>
12:00 PM – 1:00 PM	Virtual Exhibition Viewing & Lunch



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1:00 PM – 1:30 PM	<p><b>Session 17 Title: Appendix U, How Does it Really Apply?</b> <b>Moderator: George Morovich</b> <i>The presentation will have actual photos I have taken of in 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.</i> <b>Speaker: Gary Mathis, TGR Industrial Services</b></p>
1:30 PM – 1:45 PM	<p><b>Break</b></p>
1:45 PM – 3:00 PM	<p><b>Session 18: Robotic Inspections</b> <b>Moderator: Earl Crochet</b> <i>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.</i> <b>Speaker: Steven Trevino, SPRINT Robotics, and Veritank</b></p>
3:00 PM – 4:30 PM	<p>Virtual Exhibition Viewing &amp; Happy Hour</p>