

Hazardous Materials Training Seminar

August 21-23, 2018

Houston, TX



Hilton Americas Hotel & Conference Center
1600 Lamar Street, Houston, TX 77010

Program Details

This program is designed for anyone responsible for the handling, loading, unloading, inspection, and preparation of shipments of hazardous materials by rail. Attendees will have the opportunity to interact with experts from the railroad industry along with agency professionals on regulatory issues. Other areas of interest that will be covered include:

- Tank car loading and unloading operators
- Tank car manufacturing and repair technicians
- Railroad carriers
- Intermodal operations



Hosted by the Federal Railroad Administration,
Technical Training Standards Division (TTSD)



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Session Agenda

Monday, August 20, 2018

1600 – 2000 Registration on Level Four of the Conference Center

Tuesday, August 21, 2018

0700 – 0800 Registration on Level Four of the Conference Center

0800 – 1130 Opening Session

1130 – 1300 Lunch Break

1300 – 1430 Concurrent Sessions:

- HZ1802 AAR/RSI Safety Project** - John Byrne, Railway Supply Institute, Inc.
- HZ1804 UPRR HM Program** – Timothy O'Brien, Tyler Parker, UPRR
- HZ1807 How to Use the HMR** – Earl (Jack) Whitely, USDOT/PHMSA
- HZ1810 Gasket Selection and Torque Values** – Jim Frew, Dan Reid, VSP Technologies; John Sherman, Trelleborg Sealing Solutions
- HZ1812 Valves & Connections General Service and Pressure Cars. Extending the Life of Your Loading Arms. Know When to Change Your Gaskets and O-rings** – John Williams, TransQuip USA
- HZ1832 How an Effective NDT Program Prevents NAR's; How an Effective Linings and Coatings Program Prevents NAR's; How an Effective Tank Car Welding Program Prevents NAR's** – James Strong, David Gildea, Vernon Walker, FRA
- HZ1833 Tank Car Storage** – Richard Baxley, FRA
- HZ1837 Transportation Security Plan Requirements** – Lisa Matsinger, FRA

1430 – 1600

Concurrent Sessions:

- HZ1803 BNSF HM Program** – Patrick Brady, Clay Reid, Justin Piper, BNSF
- HZ1813 Manways and Loading Rack Connections** – John Williams, TransQuip USA
- HZ1814 Butane Transloading Overview and Best Safety Practices** – Ed Patterson, Sunoco Pipeline; Tony Mello, Energy Transfer Partners
- HZ1816 Best Practices for Securing Tank Cars Used to Transport Chlorine, Caustic, & Hydrochloric Acid** –Larry Loman, Alltranstek
- HZ1817 Air Monitoring Best Practices During a Chemical Emergency Response** – Cory Davis, CTEH
- HZ1818 Valves and Fittings on Rail Tank Cars. Do's and Don'ts to Extend the Service Life of the Equipment. Hands-on Opportunity with the Midland Emergency Response Kit (ERK)** – Dan Thompson, Roar Broch, OPW Midland Mfr.
- HZ1820 IMDG and Intermodal Operations** – Randy Boyington, FRA
- HZ1824 Reliability for Qualification and Maintenance** – Larry Strouse, FRA

Wednesday, August 22, 2018

0800 – 0930

Concurrent Sessions:

- HZ1805 Presentation on Activities of the NAR Committee** – Chris Machenberg, CSX Transportation; Todd Treichel, AAR
- HZ1815 Railroad Scales: An Essential Safety Tool** – Tim Broemmer, Rice Lake Weighing Systems
- HZ1819 Best Practices in Pre and Post-Inspections. Focus on a Practical Tank Car Inspection Checklist and Plant Operator Leak Testing to Ensure Fitness-for-Transportation** – James Rader, Brian McCracken, Paul Conner, Greenbrier Management Services
- HZ1821 Data-driven Shipper Facility Inspection Optimization Protocol** – Phani Raj, FRA
- HZ1824 Reliability for Qualification and Maintenance** – Larry Strouse, FRA
- HZ1829 Safety Concerns Manway Swing Bolts** – Gary Burke, FRA
- HZ1831 Review of Recent Regulatory Actions** – Kurt Eichenlaub, FRA
- HZ1835 A Review of HM Guidance's and FRA Interpretations** – Jeffrey Moore, FRA

0930 – 1100

Concurrent Sessions:

- HZ1808 Performance Oriented Packaging (POP)** - Earl (Jack) Whitely, USDOT/PHMSA
- HZ1809 NS HM Program Managing Your Risk – Preparedness, Prevention, Mitigation, and Response** - David Schoendorfer, NS
- HZ1810 Gasket Selection and Torque Values** – Jim Frew, Dan Reid, VSP Technologies; John Sherman, Trelleborg Sealing Solutions
- HZ1818 Valves and Fittings on Rail Tank Cars. Do's and Don'ts to Extend the Service Life of the Equipment. Hands-on Opportunity with the Midland Emergency Response Kit (ERK)** – Dan Thompson, Roar Broch, OPW Midland Mfr.

- HZ1823 Research on Tank Cars and Hazardous Materials Transportation** – Francisco Gonzalez, FRA
- HZ1828 Tank Car Filling Limits with Emphasis on General Service Tank Cars** – Kevin Cash, FRA
- HZ1836 Loading and Unloading Tank Cars** – Mel Massaro, FRA
- HZ1838 Disconnecting BOV Handles, Their New Operating Procedures & Best Practices for Proper Manway Securement** - David Clugg, Griffin Schiele, Salco Products, Inc.

1100 – 1230 Concurrent Sessions:

- HZ1803 BNSF HM Program** – Patrick Brady, Clay Reid, Justin Piper, BNSF
- HZ1801 Agency Functions, Responsibilities, Cases with Emphasis on Hazmat by Rail** – Office of Inspector General
- HZ1820 IMDG and Intermodal Operations** – Randy Boyington, FRA
- HZ1822 General Approach for Assessing Risks from Hazmat Transportation on Rail** - Phani Raj, FRA
- HZ1826 How the Proper Implementation and Execution of a TCF QAP Can Prevent NAR's** – Matt Forister, AAR
- HZ1830 One-Time-Movement Approval Process.** – Kurt Eichenlaub, FRA
- HZ1833 Tank Car Storage** – Richard Baxley, FRA
- HZ1839 HZ1839 – Rail EDI Hazmat**– Melissa Collins, Kansas City Southern Railway

1230 – 1330 Lunch Break

1330 – 1500

Concurrent Sessions:

- HZ1806 Hazmat Incident Reporting** – Yolanda Y. Braxton, USDOT/PHMSA
- HZ1807 How to Use the HMR** – Earl (Jack) Whitely, USDOT/PHMSA
- HZ1812 Valves & Connections General Service and Pressure Cars. Extending the Life of Your Loading Arms. Know When to Change Your Gaskets and O-rings** – John Williams, TransQuip USA
- HZ1814 Butane Transloading Overview and Best Safety Practices** – Ed Patterson, Sunoco Pipeline; Tony Mello, Energy Transfer Partners
- HZ1825 Reliability Case Studies (2)** - Larry Strouse, FRA
- HZ1827 AAR Pamphlet 34 Recommended Methods for the Safe Loading and Unloading of Tank Cars** – RG Ashton, AAR
- HZ1829 Safety Concerns Manway Swing Bolts** – Gary Burke, FRA
- HZ1834 Penalty Process** – Richard Baxley, FRA

1500 – 1630

Concurrent Sessions:

- HZ1804 UPRR HM Program** – Timothy O'Brien, Tyler Parker, UPRR
- HZ1811 TRANSCAER® Info** – Rick Ferguson, Shell; Russ Wilson, Third Coast Terminals; Todd Johnson, Wild Well
- HZ1813 Manways and Loading Rack Connections** – John Williams, TransQuip USA
- HZ1822 General Approach for Assessing Risks from Hazmat Transportation on Rail** - Phani Raj, FRA
- HZ1828 Tank Car Filling Limits with Emphasis on General Service Tank Cars** – Kevin Cash, FRA
- HZ1831 Review of Recent Regulatory Actions** – Kurt Eichenlaub, FRA
- HZ1836 Loading and Unloading Tank Cars** – Mel Massaro, FRA
- HZ1837 Transportation Security Plan Requirements** – Lisa Matsinger, FRA

Thursday, August 23, 2018

0800 – 0930

Concurrent Sessions:

- HZ1805 Presentation on Activities of the NAR Committee** – Chris Machenberg, CSX Transportation; Todd Treichel, AAR
- HZ1809 NS HM Program Managing Your Risk – Preparedness, Prevention, Mitigation, and Response** - David Schoendorfer, NS
- HZ1816 Best Practices for Securing Tank Cars Used to Transport Chlorine, Caustic, & Hydrochloric Acid** –Larry Loman, Alltranstek
- HZ1817 Air Monitoring Best Practices During a Chemical Emergency Response** – Cory Davis, CTEH
- HZ1819 Best Practices in Pre- and Post-Inspections. Focus on a Practical Tank Car Inspection Checklist and Plant Operator Leak Testing to Ensure Fitness-for-Transportation** – James Rader, Brian McCracken, Paul Conner, Greenbrier Management Services
- HZ1825 Reliability Case Studies (2)** - Larry Strouse, FRA
- HZ1832 How an Effective NDT Program Prevents NAR's; How an Effective Linings and Coatings Program Prevents NAR's; How an Effective Tank Car Welding Program Prevents NAR's** – James Strong, David Gildea, Vernon Walker, FRA
- HZ1835 A Review of HM Guidance's and FRA Interpretations** – Jeffrey Moore, FRA

0930 – 1100

Concurrent Sessions:

- HZ1806 Hazmat Incident Reporting** – Yolanda Y. Braxton, USDOT/PHMSA
- HZ1810 Gasket Selection and Torque Values** – Jim Frew, Dan Reid, VSP Technologies; John Sherman, Trelleborg Sealing Solutions

- HZ1821 Data-driven Shipper Facility Inspection Optimization Protocol** – Phani Raj, FRA
- HZ1823 Research on Tank Cars and Hazardous Materials Transportation** – Francisco Gonzalez, FRA
- HZ1827 AAR Pamphlet 34 Recommended Methods for the Safe Loading and Unloading of Tank Cars** – RG Ashton, AAR
- HZ1834 Penalty Process** – Richard Baxley, FRA
- HZ1830 One-Time-Movement Approval Process.** – Kurt Eichenlaub, FRA
- HZ1838 Disconnecting BOV Handles, Their New Operating Procedures & Best Practices for Proper Manway Securement** - David Clugg, Griffin Schiele, Salco Products, Inc.

1300 – 1430

Concurrent Sessions:

- HZ1801 Agency Functions, Responsibilities, Cases with Emphasis on Hazmat by Rail** – Office of Inspector General
- HZ1802 AAR/RSI Safety Project** - John Byrne, Railway Supply Institute, Inc.
- HZ1808 Performance Oriented Packaging (POP)** - Earl (Jack) Whitely, USDOT/PHMSA
- HZ1811 TRANSCAER® Info** – Rick Ferguson, Shell; Russ Wilson, Third Coast Terminals; Todd Johnson, Wild Well
- HZ1815 Railroad Scales: An Essential Safety Tool** – Tim Broemmer, Rice Lake Weighing Systems
- HZ1826 How the Proper Implementation and Execution of a TCF QAP Can Prevent NAR's** – Matt Forister, AAR
- HZ1839 HZ1839 – Rail EDI Hazmat**– Melissa Collins, Kansas City Southern Railway

Sessions at a Glance

Monday August 20, 2018 4-8 PM

Registration on Level Four of the Conference Center

Tuesday August 21, 2018

Time	Ballroom JKL	RM 338	RM 335-A	RM 335-B	RM 335-C	RM 327	RM 328	RM 329	RM 330
0700 - 0800	Registration Level 4								
0800 – 1130	Opening Session								
1130 - 1300	Lunch Break								
Time	Ballroom G&H	RM 338	RM 335-A	RM 335-B	RM 335-C	RM 327	RM 328	RM 329	RM 330
1300 - 1430	Vendor Displays	HZ1833	HZ 1812	HZ1810	HZ1832	HZ1807	HZ1802	HZ1837	HZ1804
1430 - 1600		HZ1803	HZ1813	HZ1816	HZ1824	HZ1818	HZ1817	HZ1814	HZ1820

Wednesday August 22, 2018

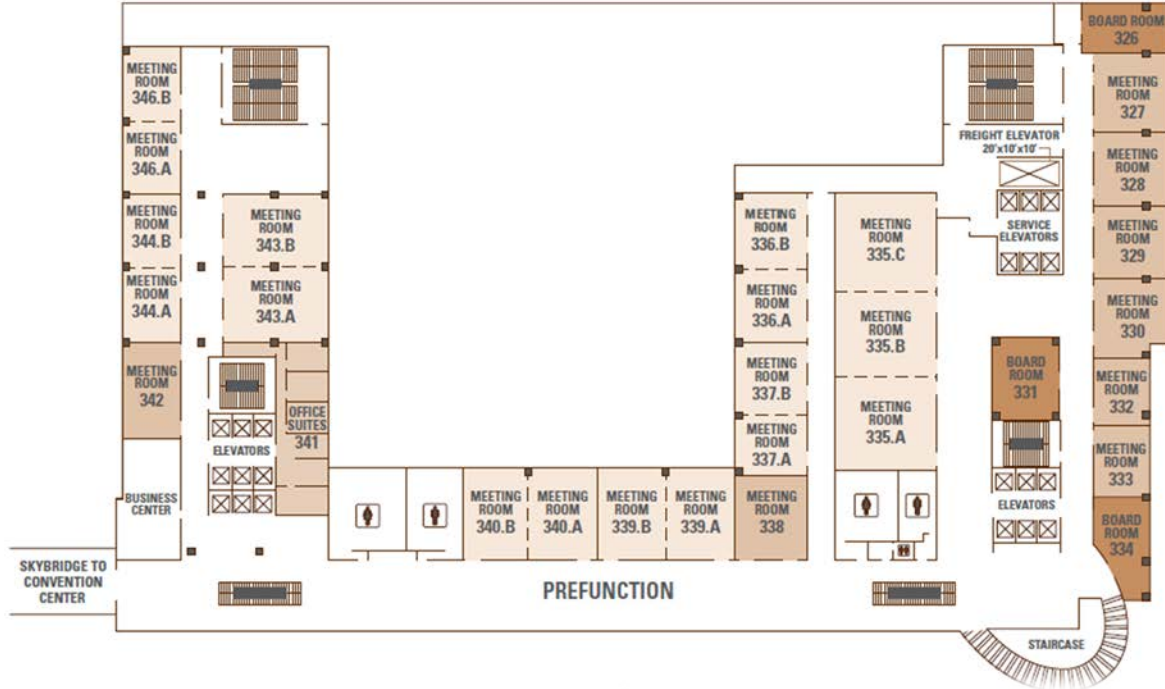
Time	Ballroom G&H	RM 338	RM 335-A	RM 335-B	RM 335-C	RM 327	RM 328	RM 329	RM 330	
0800 - 0930	Vendor Displays	HZ1815	HZ1805	HZ1829	HZ1824	HZ1831	HZ1821	HZ1835	HZ1819	
0930 - 1100		HZ1808	HZ1818	HZ1810	HZ1836	HZ1809	HZ1828	HZ1838	HZ1823	
1100 - 1230		HZ1803	HZ1801	HZ1826	HZ1839	HZ1830	HZ1822	HZ1833	HZ1820	
1230 - 1330		Lunch Break								
1330 - 1500		HZ1834	HZ1812	HZ1827	HZ1814	HZ1807	HZ1825	HZ1829	HZ1806	
1500 - 1630	HZ1804	HZ1813	HZ1822	HZ1836	HZ1831	HZ1828	HZ1811	HZ1837		

Thursday August 23, 2018

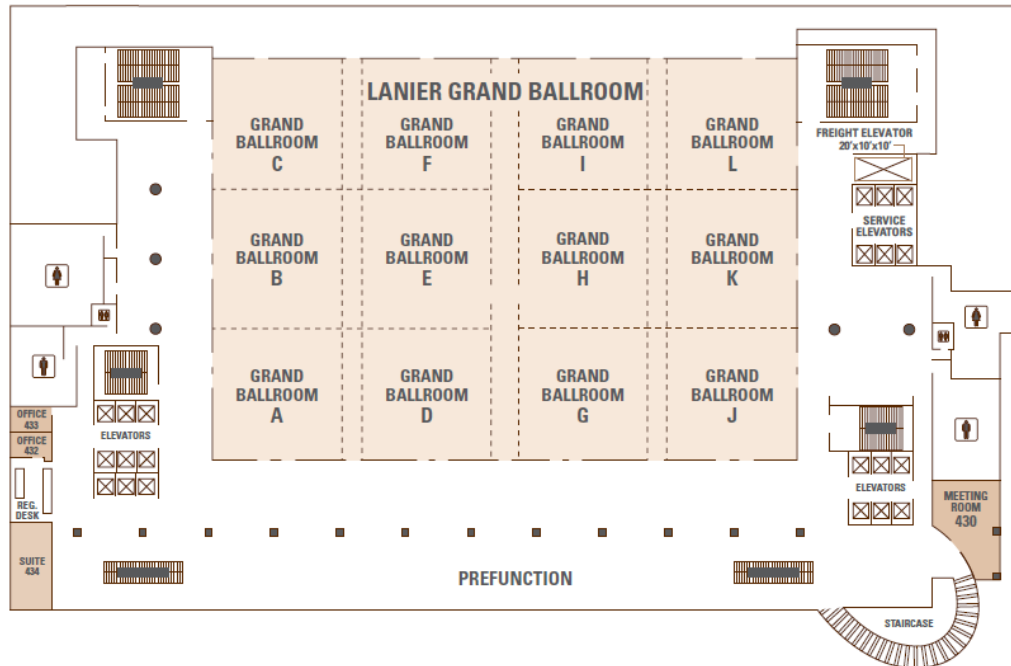
Time	Ballroom G&H	RM 338	RM 335-A	RM 335-B	RM 335-C	RM 327	RM 328	RM 329	RM 330
0800 - 0930	Vendor Displays	HZ1825	HZ1805	HZ1816	HZ1832	HZ1809	HZ1817	HZ1835	HZ1819
0930 - 1100		HZ1834	HZ1830	HZ1810	HZ1838	HZ1806	HZ1821	HZ1827	HZ1823
1130 - 1300		Lunch Break							
1300 - 1430		HZ1808	HZ1839	HZ1826	FRA HM Closed Meeting	HZ1801	HZ1802	HZ1815	HZ1811
1430 - 1630		Open Forum with FRA Representatives and Seminar Presenters in Grand Ballroom JKL							

Maps - Session Locations

Level Three



Level Four



Sessions Offered

View the *Sessions at a Glance* to see when each session will be offered and where it will be held.

OPENING SESSION:

- **Opening Remarks & Acknowledgements** – Ernie Sirotek, FRA
- **Welcome from R5 Leadership** – Vence Haggard, Greg Migely, Lee Deck, FRA
- **Welcoming Remarks -TTSD** – Patrick McFall, FRA
- **FRA Hazmat Program** – Mark Maday, FRA
- **Hazmat RSAC Overview** – Kurt Eichenlaub, FRA
- **Special Announcement** – Joel Roberts, FRA
- **Keynote Speaker** – Karl Alexy, FRA

PRESENTATIONS OFFERED:

- **HZ1801 - Agency Functions, Responsibilities, Cases with Emphasis on Hazmat by Rail** – Office of Inspector General
- **HZ1802 - AAR/RSI Safety Project** - John Byrne, Railway Supply Institute, Inc.
- **HZ1803 - BNSF HM Program** – Patrick Brady, Clay Reid, Justin Piper, BNSF
- **HZ1804 - UPRR HM Program** – Timothy O'Brien, Tyler Parker, UPRR
- **HZ1805 - Presentation on Activities of the NAR Committee** – Chris Machenberg, CSX Transportation; Todd Treichel, AAR
- **HZ1806 - Hazmat Incident Reporting** – Yolanda Y. Braxton, USDOT/PHMSA
- **HZ1807 - How to Use the HMR** – Earl (Jack) Whitely, USDOT/PHMSA
- **HZ1808 - Performance Oriented Packaging (POP)** - Earl (Jack) Whitely, USDOT/PHMSA
- **HZ1809 - NS HM Program Managing Your Risk – Preparedness, Prevention, Mitigation, and Response** - David Schoendorfer, NS
- **HZ1810 - Gasket Selection and Torque Values** – Jim Frew, Dan Reid, VSP Technologies; John Sherman, Trelleborg Sealing Solutions

- **HZ1811 – TRANSCAER® Info** – Rick Ferguson, Shell; Russ Wilson, Third Coast Terminals; Todd Johnson, Wild Well
- **HZ1812 - Valves & Connections General Service and Pressure Cars. Extending the Life of Your Loading Arms. Know When to Change Your Gaskets and O-rings** – John Williams, TransQuip USA
- **HZ1813 - Manways and Loading Rack Connections** – John Williams, TransQuip USA
- **HZ1814 – Butane Transloading Overview and Best Safety Practices** – Ed Patterson, Sunoco Pipeline; Tony Mello, Energy Transfer Partners
- **HZ1815 - Railroad Scales: An Essential Safety Tool** – Tim Broemmer, Rice Lake Weighing Systems
- **HZ1816 – Best Practices for Securing Tank Cars Used to Transport Chlorine, Caustic, & Hydrochloric Acid** –Larry Loman, Alltranstek

This presentation will provide guidance for preparing tank car shipments of chlorine, hydrochloric acid, and caustic (sodium hydroxide (NaOH) and potassium hydroxide (KOH)), including best practices for reducing non-accident releases (NARs). Topics covered include an overview of related DOT incident data, general costs of an NAR (quantitative and qualitative), inspection and securement tips, some differences between loader and unloader responsibilities, and available Chlorine Institute guidance and resources.
- **HZ1817 - Air Monitoring Best Practices During a Chemical Emergency Response** – Cory Davis, CTEH

Chemical spills produce hazards to workers and the community. Collecting data during and following a chemical spill is important for understanding the human health impacts of the incident. This presentation will describe best practices for a major chemical release where worker and public health concerns are prominent. The presentation will include, the strategies for setting up air monitoring, the types of instruments deployed and their capabilities and limitations, approaches to interpreting the data in real-time and providing risk related input to the incident commander.
- **HZ1818 – Valves and Fittings on Rail Tank Cars. Do's and Don'ts to Extend the Service Life of the Equipment. Hands-on Opportunity with the Midland Emergency Response Kit (ERK)** – Dan Thompson, Roar Broch, OPW Midland Mfr.
- **HZ1819 - Best Practices in Pre and Post-Inspections. Focus on a Practical Tank Car Inspection Checklist and Plant Operator Leak Testing to Ensure**

Fitness-for-Transportation – James Rader, Brian McCracken, Paul Conner, Greenbrier Management Services

- **HZ1820 - IMDG and Intermodal Operations** – Randy Boyington, FRA
- **HZ1821 - Data-driven Shipper Facility Inspection Optimization Protocol** – Phani Raj, FRA

This presentation will discuss a method by which hazmat shipment facilities may be inspected, optimizing the personnel time and resources in a FRA Region. The model is based on assigning a “risk ranking number” to each shipper facility in a region and prioritize the inspection based on rank ordered “high risk” candidate facilities. The data for assigning the risk number includes those from Form 96, 5800 R reports (for NARs), and other attributes of individual shippers such as the class of hazmat shipped, quantity shipped, and any cited violations/defects.

- **HZ1822 - General Approach for Assessing Risks from Hazmat Transportation on Rail** - Phani Raj, FRA

The assessment of “Risk” to the public arising from shipments of hazardous materials on rail includes how often accidents occur that result in hazmat release (and the magnitude of releases) as well as how large an area is affected by the detrimental effects of hazmat releases. The results from risk analyses provide a regulator the means by which the relative hazards of shipments of different classes of hazmat on different routes and in different (annual) quantities can be compared. This presentation will discuss the various parameters that need to be considered and how they interact in calculating the risk associated with hazmat shipments on rail. Additionally, the criteria by which the risk results can be evaluated and decisions can be made are also presented.

- **HZ1823 – Research on Tank Cars and Hazardous Materials Transportation** – Francisco Gonzalez, FRA
- **HZ1824 - Reliability for Qualification and Maintenance** – Larry Strouse, FRA
- **HZ1825 - Reliability Case Studies (2)** - Larry Strouse, FRA
- **HZ1826 - How the Proper Implementation and Execution of a TCF QAP Can Prevent NAR's** – Matt Forister, AAR
- **HZ1827 - AAR Pamphlet 34 Recommended Methods for the Safe Loading and Unloading of Tank Cars** – RG Ashton, AAR

- **HZ1828 – Tank Car Filling Limits with Emphasis on General Service Tank Cars** – Kevin Cash, FRA

Tank car filling limits from the shipper and inspector perspectives. How shippers can avoid overfilling tank cars by volume. How inspectors can investigate tank cars suspected of being overfilled by volume.

- **HZ1829 - Safety Concerns Manway Swing Bolts** – Gary Burke, FRA

- **HZ1830 – One-Time-Movement Approval Process.** – Kurt Eichenlaub, FRA

An explanation of the OTMA process from the Applicant's perspective, including how to use and apply hazmat guidance (HMG-127) for requesting and obtaining OTMA's for the movement of nonconforming hazmat packagings (e.g., DOT Specification Tank Cars).

- **HZ1831 - Review of Recent Regulatory Actions** – Kurt Eichenlaub, FRA

A review of recent final rules as well as ongoing rulemaking initiatives applicable to the safe transportation of hazardous materials by rail.

- **HZ1832 - How an Effective NDT Program Prevents NAR's; How an Effective Linings and Coatings Program Prevents NAR's; How an Effective Tank Car Welding Program Prevents NAR's** – James Strong, David Gildea, Vernon Walker, FRA

- **HZ1833 - Tank Car Storage** – Richard Baxley, FRA

- **HZ1834 - Penalty Process** – Richard Baxley, FRA

- **HZ1835 - A Review of HM Guidance's and FRA Interpretations** – Jeffrey Moore, FRA

- **HZ1836 - Loading and Unloading Tank Cars** – Mel Massaro, FRA

- **HZ1837 - Transportation Security Plan Requirements** – Lisa Matsinger, FRA

- **HZ1838 – Disconnecting BOV Handles, Their New Operating Procedures & Best Practices for Proper Manway Securement** - David Clugg, Griffin Schiele, Salco Products, Inc.

- **HZ1839 – Rail EDI Hazmat**– Melissa Collins, Kansas City Southern Railway

- **General Discussions**

Open Forum with the Seminar Speakers. This is a chance to meet with various Seminar Instructors. This will be a general question and answer session.

Speaker Biographies

Karl Alexy – Deputy Associate Administrator, United States Department of Transportation Federal Railroad Administration Office of Railroad Safety

R.G. Ashton – General Manager (Bureau of Explosives) Association of American Railroads

Richard Baxley – Richard Baxley is an Attorney for the United States Department of Transportation Federal Railroad Administration. Mr. Baxley graduated from Georgetown University Law Center in 2014, after earning a B.S. in Economics at Villanova University. Prior to joining FRA's Office of Chief Counsel as a trial attorney in January 2016, Richard worked as a law fellow at NOAA's Office of General Counsel and as a staff attorney for Flyers Rights.

Randy Boyington – Mr. Boyington has been an FRA hazardous materials inspector in the northwest and Alaska for 18 years. Prior to the FRA, he was in the Coast Guard for 23 years, seven of which were inspecting international hazardous material shipments in the ports of Portland Oregon and Seattle/ Tacoma Washington.

Patrick Brady, CIH, CSP – BNSF Railway, General Director Hazardous Materials Safety, Fort Worth, TX. Patrick, started with Burlington Northern Railroad (BN) in 1991 as a Corporate Industrial Hygienist. He became the Assistant Director Hazardous Materials Safety in 1992. Upon BN's merger with Santa Fe in January 1996, Patrick became the Manager of Hazardous Materials Field Operations and Emergency Response and was promoted to the Asst. Director of Hazardous Materials in 2002, Director Hazardous Materials in 2014 and to General Director, Hazardous Materials Safety in 2015. Additionally, Patrick is a Certified Industrial Hygienist and a Certified Safety Professional.

Yolanda Y. Braxton – Director, Program Management, Data and Statistics Division, United States Department of Transportation Pipeline and Hazardous Materials Safety Administration

Ms. Braxton is the Director of the Program Management, Data and Statistics Division that is composed of a dynamic group of economists, program and data analysts, and statisticians with specific expertise in modal hazardous materials transportation to support PHMSA's safety mission through integrated planning, development, analysis, and evaluation of programmatic activities. Prior to becoming Director, Ms. Braxton served as the OHMS Data Operations Coordinator in which she supported PHMSA's vision for a risk-based data driven organization in which OHMS Data Operations improves hazardous materials transportation data collection to better target the data needed to manage serious risks and detect emerging risks. Ms. Braxton developed and managed initiatives, strategies and long range plans that resolved an agency level issue of data quality by strategically developing, planning and executing a Quality Management System (QMS) to facilitate continuous improvement in support of the Pipeline and Hazardous Material Safety Administration (PHMSA) mission.

Ms. Braxton provided oversight for the statutory compliance of filers, and strives to enhance stakeholder's expectations in terms of data quality, timeliness response to incident reporting inquiries and data requests.

Roar J. Broch – Mr. Broch is currently working as a consultant. He worked for Midland Mfg. for 22 years as Regional Manager, Technical Sales. Retired December 31, 2012. Midland Mfg. is one of the largest manufacturer of valves and fittings for the rail tank car industry in North America. During his employment with Midland Mfg', he represented Midland Mfg. as an Instructor at TRANSCAER®, Chlorep and FRA HazMat seminars and have continued to do the same since his retirement. His primary responsibility as an Instructor has been to explain the purpose of the valves and fittings and how they work and to demonstrate the Midland Emergency Response Kit.

Tim Broemmer – Heavy Capacity Sales Director, Rice Lake Weighing Systems. From St. Louis, Missouri, Tim Broemmer has been with Rice Lake Weighing Systems since 2015 and specializes in railway weighing systems. He has more than 12 years of scale industry experience and is the current Vice President for the National Industrial Scale Association (NISA) and a voting member of AREMA Committee 34, the scale technical committee. Tim is also involved with Railway Engineering-Maintenance Suppliers Association (REMSA) and National Conference on Weights and Measures (NCWM). Offering industry leadership and advocating the importance of quality weighing systems and technical scale advancements in the railway industry is Tim's primary objective.

Gary Burke – Hazardous Materials Safety Inspector United States Department of Transportation Federal Railroad Administration. Gary Burke is the Region 3 Hazardous Materials Inspector located in Kingsport, Tennessee, and has been with the FRA for 13 years. Prior to coming to the FRA he was employed by a Chemical Company in the Engineering Division.

John Byrne – Vice Chairman, Committee on Tank Cars Railway Supply Institute

Kevin Cash – Kevin Cash is the FRA Railroad Safety Inspector (HM) for the Birmingham, Alabama District. He has been with the FRA for 15 years – serving his first five years in the Detroit, Michigan District. Prior to working for FRA, he worked for BNSF Railway in intermodal operations management at Fort Worth, Texas and Seattle, Washington. He earned his Transportation/Logistics Degree at Auburn University. He resides with his wife and their three sons in central Alabama.

David Clugg – Vice President of Business Development, Customer Support and Marketing. Mr. Clugg has been working in the transportation industry for over 20 years. He has his undergraduate degree from the University of Wisconsin-Madison in Behavioral Science and Law and his MBA from DePaul University. In his career he has worked for a major railcar leasing company, a valve manufacturer and an electrical contracting firm prior to joining Salco Products five years ago. Today, among his responsibilities, is the Hazarsolve product line of UHMW Polyethylene products for corrosive services, new products and new market opportunities domestic and international.

Melissa Collins – Electronic Data Interchange (EDI) Manager at Kansas City Southern (KCS). Headquartered in Kansas City, Missouri, KCS is a transportation holding company that has railroad investments in the U.S., Mexico and Panama. KCS' North American rail holdings and strategic alliances are primary components of a railway network, linking the commercial and industrial centers of the U.S., Mexico and Canada.

Ms. Collins has 27 years of railroad experience, holding a variety of roles in customer service before moving to EDI in 2009. She joined KCS in 1991. She is currently a member of four Association of American Railroad committees, including the Transborder Committee, Rail Customs Task Force, EDI Committee and the Rail EDI Haztag Committee, which she chairs.

Ms. Collins holds a bachelor of science in business from Park University.

Cory Davis – Mr. Davis is the Senior Vice President of Operations, serves as a Principal Consultant with CTEH, LLC. He has 18 years of experience in response management, industrial hygiene, environmental crisis management, waste management and consulting. He specializes in recognizing and evaluating adverse environmental conditions including the release or threat of release of hazardous materials. A large portion of his focus has been on community exposures and public health, overseeing a variety of investigative and consultative professional assignments to prevent occupational diseases and protect and improve the industrial health of the community and the environment.

Mr. Davis has worked with various safety issues related to chemical exposure, aerosol/dust exposure, asbestos exposure, industrial ventilation, and indoor air quality for the transportation, mining, exploration, oil and gas, and chemical manufacturing industries. Mr. Davis is a member of the American Industrial Hygiene Association and the American Society of Safety Engineers.

Lee Deck – HM Specialist Region 5, United States Department of Transportation Federal Railroad Administration

Kurt Eichenlaub – Railroad Safety Specialist (Hazardous Materials), Federal Railroad Administration, Washington, DC. Kurt Eichenlaub has 17 years of experience in hazmat transportation safety and compliance. Currently, Mr. Eichenlaub is a Railroad Safety Specialist for FRA where he has been supporting the agency's hazmat safety oversight programs for the past 7 years. Prior to FRA, Mr. Eichenlaub worked for the Pipeline and Hazardous Materials Safety Administration (PHMSA) supporting agency initiatives to develop and implement multi-modal hazmat safety policies and regulations. Kurt holds a B.S. in Meteorology from the Pennsylvania State University.

James Frew – VSP Technologies; Jim graduated from Mississippi State University with a degree in Nuclear Engineering. He developed a strong foundation for his extensive fluid sealing background through his initial three years as a Nuclear Consultant with Pacific Nuclear and Vectra. He went on to establish his own consulting company, and eventually became involved with VSP Technologies (formerly Virginia Sealing Products), where he has been employed for the last 20 years. Jim has a total of 27 years' experience.

Jim's first position with VSP Technologies was Senior Site Services Engineer at the Eastman Plant in Kingsport, TN. Due to his involvement in the chemical processing industry, Jim became aware of the specific Fluid Sealing needs of Bulk Transportation Equipment, and in so doing, established a strong technical relationship between the Shippers, Repair Shops and VSP Technologies; benefiting the Transportation Industry, which ultimately led to the creation of the RideTight® Fluid Sealing Management program for Bulk Transportation Equipment. Jim is currently the Director of VSP Technologies Transportation division where he is actively involved with the AAR (American Association of Railroad) and the NAR (Non-Accident Release) Committee's. With Jim's guidance, the RideTight® Program is now utilized by over 60 companies in the United States and Internationally.

Early in Jim's career with VSP Technologies he recognized the value and benefit of training to both the client and VSP and has delivered over 500 Training Classes to Repair Shops, Leasing Companies, Terminals, and Shippers. He is the author of numerous Fluid Sealing Papers and Presentations, and holds four U.S. Patents.

Rick Ferguson – Co-Coordinator - TRANSCAER®. Shell

Matt Forister – Director Tank Car Safety, Association of American Railroads

Francisco Gonzalez – Research and Development Engineer, United States Department of Transportation Federal Railroad Administration

Vence Haggard – Regional Administrator Region 5, United States Department of Transportation Federal Railroad Administration

Todd Johnson – State Coordinator for Texas TRANSCAER®. Wild Well Control, Inc. Mr. Johnson is a 34-year veteran of the fire service and environmental/hazmat response industry. Vital positions held by Mr. Johnson include Firefighter/Hazmat/ Crash Technician for Lockheed Martin, Operations Manager for Garner Environmental and Director of Emergency Response for SWS Environmental (formerly Eagle Construction and Environmental).

As Senior Environmental Advisor for Wild Well Control, Inc., Mr. Johnson provides environmental oversight, quality control and management of releases during well events as well as midstream and upstream pipeline ruptures. In addition, he manages daily work schedules, analysis of daily cost and site waste management for the industry leader in well control, engineering and firefighting services.

Mr. Johnson has served as Incident Commander and Project Manager on several of the nation's largest environmental incidents. He is a board member of the Texas State Fireman's and Fire Marshal's Association-Industrial Board and President of Texas TRANSCAER®.

Mr. Johnson studied fire science chemistry at Tarrant County College and holds a vast number of certifications and training tools that compliment his experience including OSHA 40 Hour Hazwoper, NIMS, Texas Disaster Recovery, Oil Spill Management, Pipeline Emergencies and Radiation Safety Officer, as well as several other industry certifications.

Larry Loman – Mr. Loman is Director of Engineering at AllTranstek and is responsible for tank qualification and maintenance procedures, reliability studies and analysis, technical support for fleet administration services, and advising customers on regulatory concerns and inspection intervals. He organizes training classes for tank car valve rebuilding and application and hazardous materials loading and unloading.

Larry is involved in several industry organizations including the Association of American Railroads' Tank Car Committee (as participant and sometimes chair of task forces), The Chlorine Institute (vice chair of the Transportation Issue Team and moderator of Transportation Forum), and the FRA Railroad Safety Advisory Committee (hazardous materials working group). In 1996, Larry was issued a patent for Stem Seal Configuration for Ball Valves (Patent No. 5,577,709).

AllTranstek employee since: 2005

Industry experience since: 1988

BS in Mechanical Engineering, University of Illinois

Chris Machenberg – Director of Chemical Safety Systems CSX Transportation

Mark Maday – HM Staff Director, United States Department of Transportation Federal Railroad Administration

Lawrence (Mel) Massaro – Hazardous Materials Specialist HQ, United States Department of Transportation Federal Railroad Administration

Lisa Matsinger – Lisa Matsinger is a Railroad Safety Specialist (Hazardous Materials) for the Federal Railroad Administration in Washington, DC. She started working for FRA as a Secretary based in Philadelphia, PA. Then, Lisa spent four years as a Transportation Specialist working with Operating Practices, Track, Signal & Train Control, Motive Power & Equipment, and Hazardous Materials Inspectors/Specialists on a variety of projects. After specialized training in Hazardous Materials, Lisa became the Hazardous Materials Inspector in Baltimore, MD in 1995. Responsibilities included investigating accidents/incidents to determine cause and possible prevention; inspecting railroads/shippers for hazardous materials compliance; educating transportation and hazardous materials industry personnel about regulatory compliance and railroad hazardous materials operations. She spent 16 years in Baltimore before coming to Washington in 2011. Responsibilities now include regulatory issues, movement approvals, investigations, hazardous materials plans/routing and grants/contracts oversight. Lisa has an undergraduate degree from LaSalle University in Business and is pursuing a master's degree in Public Policy at Strayer University. She is also involved in Operation Lifesaver as a volunteer and was once a Presenter Trainer.

Tony Mello – Mr. Mello has been in the NGL industry for 20 years previously holding positions at Dynegy, Targa Resources, and DCP Midstream. He is currently employed by Energy Transfer and leads the transportation department for ETP's butane blending business. In his current position, he manages 20 butane transload locations and over 1,100 railcars ensuring that supply arrives at the more than 80 gasoline blend sites that ETP operates.

Greg Migely – Deputy Regional Administrator Region 5, United States Department of Transportation Federal Railroad Administration

Jeffrey Moore – Hazardous Materials Specialist HQ, United States Department of Transportation Federal Railroad Administration.

Prior to coming to FRA, Jeff Moore had 10 years of railroad operational experience on both Class 1 and short-line railroads where he served in such jobs as brakeman, conductor, engineer and eventually trainmaster. Jeff started with the Federal Railroad Administration (FRA) on August 17, 1997 in Philadelphia, PA as a hazardous materials inspector(Hazmat). He remained a hazmat inspector until February 2008 when he became a chief inspector. At that point, Jeff began running regional projects that included investigating train accidents. In May of 2016, Jeff became a Hazardous Materials Specialist where he serves on many national projects that include FRA's oversight of the transportation of Spent Nuclear Fuel by rail.

Timothy J. O'Brien – Director of Hazardous Materials Union Pacific Railroad

Tyler Parker – Manager Hazardous Materials Union Pacific Railroad

Edward Patterson – Mr. Patterson is employed by Sunoco, Inc./Sunoco Logistics/Energy Transfer for the past 30 years. During his time with Sunoco, he has held the position of Manager of Regulatory Compliance and Emergency Response for 25 years. Following this position, he was the Senior Specialist over Pipeline Compliance, and for the last three years he has been the Lead Specialist over Rail Compliance. Mr. Patterson has held the position of Chairperson of the National TRANSCAER® Task Group and is the current Co-Chair of Pennsylvania and New Jersey TRANSCAER®.

Justin Piper – Mr. Piper is Director of Hazardous Materials Safety at Burlington Northern Santa Fe Railway. He has been actively working in the field of Hazardous Materials Response for over 17 years. Prior to joining BNSF Railway in 2012, Justin worked as a contractor with many different industries in varying capacities regarding hazardous materials management/response and environmental project management for the railroads, highway transportation, petrochemical, maritime shipping, agricultural, pulp and paper and high-tech industries. Justin works closely with first responders, regulatory officials, industry, public stakeholders and the railroad to coordinate a safe and effective response to Hazardous Material and Environmental incidents. Justin also conducts and assists with Railroad Hazardous Materials Awareness and Response training events for First Responders along the BNSF rail network.

Education:

University of Nevada, Reno
B.S in Environmental and Natural Resource Science
Minor in Chemistry

Certifications:

Certified Hazardous Materials Manager (CHMM) #15427 – Institute of Hazardous Materials Management

James Rader – VP Regulatory Services Greenbrier Management Services

Dr. Phani K. Raj – Phani Raj is currently the General Engineer in the Hazmat Division, Office of Safety, FRA. He has been at FRA for 5 years. Before joining FRA, he headed a Safety and Risk Analysis consulting company in Boston for over 30 years.

At FRA, Phani has been involved in several projects related to the transportation of hazardous materials, development of field tests on tank cars carrying cryogenic, flammable liquids, developing scientific analysis to support regulations, instituting risk based hierarchy and optimization of inspections of tank car manufacturing/repair shops and shipper facilities. He also represents FRA in several interagency task forces that are studying the safe handling, transportation and use of liquefied natural gas in all modes. Last but not the least, he is managing several demonstration projects related to LNG and other alternative fuel uses in railroad operations.

Clay Reid – BNSF Railway – Director Hazardous Materials, Fort Worth, Texas

Clay started his hazardous materials profession with ITAPCO in 1992 as the Operations Manager of liquid storage facilities in the Port of Brownsville. Clay entered the emergency response contracting phase of his career in 1996. Clay remained in the emergency response business as a contractor with various companies until joining the BNSF in 2009 as Manager Hazardous Materials Field Operations & Emergency Response.

Dan Reid – VSP Technologies

Dan graduated from Lehigh University with a degree in Industrial Engineering. Dan began his professional career as a front-line manufacturing supervisor for Garlock Metallic Gaskets, advanced to Applications Engineer and finally Engineering Manager for the division. Concurrently, Dan earned his MBA from the University of Houston. Subsequently, Dan was hired by VSP Technologies to provide on-site technical support for the Transportation Division along the Gulf Coast. Here he helped to establish a satellite manufacturing location to streamline efficiencies in support of these operations. Dan has a total of 20 years' experience.

Mr. Reid has been with VSP for nearly 13 years and works with the shippers, repair shops and bulk terminal operations primarily focusing on railcar and intermodal applications. This involvement includes on-site training, material recommendations for specific commodities, installation guidelines; troubleshooting and root cause failure analysis. Additionally, Dan provides similar support for fixed based clients along the Gulf Coast.

Dan is committed to the industry, and has been an active member of ASME B16, serving as Chairman of Subcommittee G for the past 6 years.

Early in his career, Dan served his country as a Naval Aviator. During these nine years, he deployed throughout the Pacific Rim, was a post maintenance check pilot, as well as fleet instructor pilot.

Joel Roberts – Hazardous Materials Specialist, Region 2, United States Department of Transportation Federal Railroad Administration.

Joel has been with the FRA for 15 years, hiring on as a Hazardous Materials Inspector in Columbus, OH. He is a graduate of the FRA's Leadership Development Program and the USDA's Executive Potential Program and was the team lead developing of the FRA's Risk Reduction Voluntary Program. In 2014 Joel was recognized as the FRA's Inspector of the Year and subsequently promoted to Hazardous Materials Specialist in 2016. Prior to joining the FRA, Joel was enlisted in the U.S. Coast Guard serving as the Admiral's Flag Quarters Manager for the Commandant, Vice Commandant and three 9th District Commanders. In 1991, he was promoted to Chief / E-7 while serving on board the USCGC Boutwell in the Bering Sea and in 1992 graduated from Officer Candidate School in Yorktown, VA. Upon earning his commission, Joel served as a Marine Safety Officer dealing with Port Safety, Security & Anti-Terrorism; Oil & Hazardous Materials Compliance and Spill Response including OPA-90; Domestic & Foreign Vessel Inspections and Public Affairs Officer at three Marine Safety Offices prior to retiring in 2003.

Griffin Schiele – Griffin Schiele is the Sales Engineer and has been working in the transportation industry for seven years, all with Salco Products, Inc. He spent four years in Salco Product's engineering group as a Product Development Engineer before transitioning into a technical sales role. Mr. Schiele also supports Salco Product's international business operations, managing relationships with distributors in various international markets. He is currently pursuing a business degree and MBA.

David Schoendorfer – Norfolk Southern, System Manager Hazardous Materials

David Schoendorfer is a certified hazardous materials manager and has 27 years of experience in hazardous materials transportation. In his current role as system manager hazardous materials, David oversees all aspects of NS' hazardous materials compliance, risk management, safety training, and emergency preparedness and response across NS' 22-state system.

David began his NS career in 1985 in the Transportation Department, where he held several positions, including assistant trainmaster, supervisor system planning, and chief dispatcher. Prior to joining NS, David served as an artillery officer in the U.S. Marine Corps.

David serves as chairman of the AAR Hazardous Materials Working Group and chairman of the AAR AskRail Task Force. He also is a member of the AAR Spent Nuclear Fuel Task Force, AAR Tank Car Committee, and the National TRANSCAER Committee.

David is a 1980 graduate of Georgia Institute Technology and holds a degree in civil engineering. He graduated with his master's degree from the University of Pennsylvania in 1985.

John Sherman – John Sherman is the Segment Manager, Chemical Transportation for Trelleborg Sealing Solutions (formally Carolina Seal). In this role, he has responsibility for providing clients quantifiable solutions to their fluid sealing management programs, technical support, and best practice training.

With over 28 years of experience in the Tank Car and ISO container markets, John has held various Senior level positions in both Mechanical Operations and Transportation Equipment Management. With his background, John has considerable experience with NAR reduction initiatives as well as Root Cause Failure analysis.

Prior to joining Trelleborg, John was the Transportation Equipment Manager for DuPont with a focus on product stewardship, quality assurance, and regulatory compliance.

Ernie Sirotek – Ernie Sirotek is employed by the U.S. Department of Transportation – Federal Railroad Administration (FRA) as Hazardous Materials Specialist/Instructor for the Technical Training and Standards Division. Prior to coming to the FRA in February of 2008, Mr. Sirotek spent over 30 years with the Union Pacific Railroad with the last 18 of those years in the Hazardous Materials Department responding to hazardous material emergencies, performing regulatory compliance, and delivering training programs to employees, the public, and the private sector. Ernie holds a BSBA degree and has received over 600 hours of specialized training in hazardous materials on various topics. He has been married for 41 years and has two children and three grand-children.

James Strong – James Strong is currently employed by the Federal Railroad Administration (FRA) and holds the position of Quality Assurance Specialist. Prior to the FRA, Mr. Strong was employed in the tank car repair industry where he performed many duties including Heavy Repairman working on damaged rail cars, Inbound Write-up Inspector, Supervisor of those performing extensive repairs to cars that required inserts, project work and railroad damaged cars, and QA Manager where he was responsible for the implementation of Quality Procedures for cleaning, inspection, valve, repair, and exterior paint and interior coatings. Since his employment with the FRA he has conducted numerous QA Facility Audits throughout the United States where he has not only challenged himself on his knowledge of the Federal & AAR Requirements but has also challenged the contract shops and car owners of the same requirements.

Larry Strouse – Larry Strouse is a General Engineer – Hazardous Materials Packaging in the Federal Railroad Administration Hazardous Materials Division, specializing in the design, manufacture, maintenance, and quality assurance of tank cars. Larry's 40-year career in the rail industry includes positions with the Electro-Motive Division of General Motors, GATX, GE Rail Services, and his current position at FRA. Larry has been active on the AAR Tank Car Committee, the RSI Quality Assurance Committee, and various American Welding Society and American Society for Nondestructive Testing working groups. Larry holds graduate and undergraduate degrees in engineering and business, is an ASQ Certified Quality Auditor, Certified Quality Engineer, Certified Mechanical Inspector, Certified Reliability Engineer, Certified Manager of Quality/Operational Excellence, ASNT Certified Level III in six methods, ASNT Fellow, AWS Certified Welding Engineer and Senior Certified Welding Inspector.

Dan Thompson – Consulting Engineer OPW/Midland

BSME – Wichita State University 1984
Kansas Professional Engineering License 1991
Chemical Plant Engineering & Maintenance 1984-1997.
Transportation and Distribution Manager 1997-2016
Hazmat Specialist 1997-2016

Hazmat Engineering Consulting Engineer since 2016
Chlorine Institute & CHLOREP Sector Team Leader 1997-2016
Individual TRANSCAER® Award 2007
Chlorine Institute Pete Mayo Award 2013.
ER Trainer at CHLOREP & TRANSCAER® events since 1997
Instructor on chemical emergency response, transportation valves and fittings, and installation of Emergency Capping Kits.

Todd Treichel – Director RSI-AAR Railroad Tank Car Safety and Research and Test Project. Association of American Railroads

Thomas J. Ullom – Inspector-in-Charge for the Office of Inspector General Chicago Regional Investigations

Earl (Jack) Whitely – United States Department of Transportation Pipeline and Hazardous Materials Safety Administration

John Williams – Started TransQuip in 1994. Business & engineering education. Spent his career in industrial / mechanical markets. Lives in Jacksonville, FL. TQ has 7 offices in North America. We service & support the Tank car market in North America.

Paul Williams – Norfolk Southern, Regional Manager Hazardous Materials

Paul Williams has 34 years of experience in the railroad hazardous materials field. In his current role as regional manager hazardous materials, Paul manages NS' emergency preparedness and response, community training programs, regulatory support, DOT compliance audits, and product releases across NS' Southern Region.

Paul played an integral role in the development of the OAR safety train program to educate first responders about the safe movement of hazmat by rail. Paul is an active participant in the AskRail Task Force, providing valuable input in the development of the AskRail mobile app that provides real-time information to first responders.

Paul currently represents NS on the AAR Tank Car Committee, previously serving as chairman of the committee. Paul was former chairman of the American Chemistry Council's TRANSCAER National Steering Committee and former president of the Dangerous Goods Advisory Council. Before he began his NS career in 2003, Paul held positions with the AAR, Bureau of Explosives in Washington, D.C., and the Transportation Technology Center's Security Emergency Response Training Center in Pueblo, CO.

Russ Wilson – Russ Wilson, COSS (Certified Occupational Safety Specialist) for Third Coast Terminals in Pearland TX. Started in the chemical industry in 1985. Industrial and volunteer municipal firefighter for 12 yrs. Currently a Hazmat specialist for Third Coast Terminals and Co-coordinator for Texas TRANSCAER®.

Robert Wood – Norfolk Southern, Asst. System Manager Hazardous Materials
As NS' assistant system manager hazardous materials, Robert Wood works closely with the system manager to oversee all aspects of NS' hazardous materials compliance, special system projects, training, and emergency preparedness and response across the NS network. Robert manages risk and liabilities associated with the transport of hazardous materials by rail, ensuring that the company maintains compliance with FRA and DOT regulations. Robert has more than 30 years of experience in emergency response. Prior to NS, he spent 25 years with the Birmingham Fire & Rescue Hazardous Materials Team, and 14 years as an emergency response and environmental remediation contractor for the rail industry. Robert joined the NS team in 2012 as hazardous materials compliance officer. Robert is the regional coordinator for the national Transportation Community Awareness and Emergency Response (TRANSCAER) Region 2 program that helps communities prepare for and safely respond to incidents involving transport of hazardous material.

Joseph M Zschiesche - Supervisory Criminal Investigator for the Office of Inspector General

Joe is the special agent in charge of DOT/OIG's regional office located in Fort Worth, Texas. He has 20 years of service with DOT/OIG where he has conducted a variety of investigations including procurement fraud, unapproved aircraft parts, hazardous materials, internal affairs, and special inquiries requested by Congressional offices. Joe's work in transportation safety included leading an investigation that resulted in a precedent setting federal appeals court decision affirming OIG's criminal investigative authority over entities subject to DOT regulations.

Prior to working for DOT/OIG, Joe served on almost ten years of active duty with the U.S. Coast Guard. He will be presenting information focused on fraud investigations involving DOT programs and operations.

Meet the Technical Training Standards Division (TTSD) Team:

Pat McFall – Staff Director

Thomas Woodhams – Railroad Safety Instructional Systems Specialist

Sean Anderson – Operating Practices Instructor

John Boots – Signal & Train Control Specialist/Instructor

David Casaceli – Track Specialist/Instructor

Danny Cervantes – Motive Power & Equipment Specialist/Instructor

Diana Crysel – Administrative Assistant


Cindy Kabacinski – Learning Management System Administrator

Annette Kute – Management Analyst

Alisa Paton – Grade Crossing Specialist/Instructor

Ernie Sirotek – Hazardous Materials Specialist/Instructor

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The Grotto 	\$\$	The Grove 	\$\$	Batanga 	\$-\$\$
1001 Avenida De Las Americas Contemporary Italian. Hrs: Mon-Thur 11a-10p, Fri 11a-11p, Sat 4p-11p, Sun 4p-10p	713-658-0752	1811 Lamar Local American-Contemporary cuisine, park views. Hrs: Sun-Sat 11-10p, Brunch Sun 11-3p	713-337-7321	908 Congress Modern tapas, live music, and patio. Hrs: Sun-Tue 11-10p, Wed-Thur 11a-12a, Fri-Sat 11a-2a	713-224-9500
McAllisters Deli	\$	Hard Rock Café	\$-\$\$	Irma's Southwest Grill	\$-\$\$
1001 Avenida De Las Americas Counter-service sandwiches & sweet tea. Hrs: Mon-Sat 10a-8p, Sun- 10a-6p	832-940-0660	570 Texas (at Bayou place) Rock & Roll dining experience, classic American. Hrs: Daily Sun-Sat 11a-11p	713-227-1392	1314 Texas St. Authentic Mexican with Southwest flavors. Hrs: Mon-Fri 11-3p/5-9p, Sat 5-9p, Closed Sun	713-247-9651
Pappadeaux Seafood	\$\$-\$\$\$	Hearsay on the Green 	\$-\$\$	*Laurenzo's El Tiempo Cantina	\$-\$\$
1001 Avenida De Las Americas Hearty portions of New Orleans-style seafood. Hrs: Sun- Thur 11a-9p, Fri-Sat 11a-11p	713-654-5077	1515 Dallas Street New American comfort-style dishes. Hrs: M-Th 11a-12a, Fri-Sat 11a-2a, Sun 11-11p	832-377-3362	2814 Navigation Blvd Family owned, Tex-Mex, indoor patio. Hrs: M-T 11-9p, W-Th 11-10p, F 11-11p, Sat 9a-11p, Sun 9a-9p	713-222-6800
<u>GREEN STREET RESTAURANTS</u>		Sambuca Jazz Café		*The Original Ninfa's	
Ill Forks	\$\$-\$\$\$\$	909 Texas Contemporary American, Live Jazz nightly. Hrs: Mon-Thur 11-11p, Fri-Sat 11-12a, Sun 5-11p Hrs: Open Daily Sun-Sat 11a-10p	713-224-5299	2704 Navigation Great Tex-Mex, signature fajitas & margaritas. Hrs: Sun-Thur 11a-10p, Fri-Sat 11a-11p	713-228-1175
1201 San Jacinto Modern Steakhouse, lively atmosphere. Hrs: Mon-Thur 11-10p, Fri 11-11p, Sat 4p-10p, Closed Sun	713-658-9457	<u>BBQ</u>			
Andalusia 	\$\$	Jackson Street BBQ	\$	Xochi	\$\$-\$\$\$
1201 Caroline Tapas, Flamenco music Fri/Sat night 8p Hrs: Mon-Thur 11-10p, Fri 11-12a, Sat 5p-11p, Closed Sun	832-319-6673	209 Jackson St. Genuine Texas barbeque, dine in or take out. Hrs: Mon-Sat 11-7p, Sun 11a-3p	713-224-2400	1777 Walker St The flavors of Oaxaca, from Chef Hugo. Hrs: Mon- Thur 11a-10p, Fri-Sat 11a-11p, Sun 10a-9p; Brunch 11a-2:30p	713-400-3330
Guadalajara Del Centro	\$-\$\$	Pappas BBQ	\$	<u>SEAFOOD</u>	
1201 San Jacinto Fine local Mexican cuisine, modern deco. Hrs: Mon-Thur 11-10p, Fri-Sat 11-11p, Sun 12-9p	713-650-0101	1217 Pierce St. Good 'Ole Texas bbq since 1967, patio seating. Hrs: Mon-Fri 6a-10p, Mon-Sat 10:30-10p, Sun 11a-9p	713-659-1245	The Downtown Aquarium	\$\$
House of Blues Crossroads	\$-\$\$	*Texas Bar-B-Que House	\$	410 Bagby Seafood & variety, aquarium seating! Hrs: Sun-Thur 11a-9p, Fri-Sat 11-11p	713-223-3474
1204 Caroline Southern, Cajun, American cuisine. Hrs: Mon-Fri 11-10p, Sat-Sun 12-10p	832-667-7781	2401 Texas Ave Old-school mainstay for house made BBQ. Hrs: Mon-Fri 10:30a-3p, Sat-Sun Closed	713-227-3743	Massa's South Coast Grill	\$-\$\$
McCormick & Schmick's	\$\$-\$\$\$	<u>CAFÉS AND COUNTER SERVICE</u>		1331 Lamar (at Houston Center) Fresh seafood in a relaxing atmosphere. Hrs: Mon-Fri 11a-9p, Sat 5-10, Closed Sun	713-655-9100
1201 Fannin Traditional seafood & steak, daily menu. Hrs: Mon-Fri 11-10p, Sat 4-11p, Sun 4p-9p	713-658-8100	Brasserie Du Parc	\$-\$\$	Benihana	\$\$\$
Mia Bella	\$-\$\$	1400 Lamar Chic café, French cuisine & crêpes. Hrs: Mon-Th 11-10p, Fri-Sat 11a-11p, Sun 11a-9p	832-879-2802	1318 Louisiana St. Hibachi style Japanese dishes grilled tableside Hrs: Mon-Thur 11a-9:30p, Fri 11a-10:30p Sat 12-10:30p, Sun 12-9:30p	713-659-8231
1204 Caroline Local, casual, Italian. Hrs: Mon-Thur 11-10p, Fri-Sat 11-11p, Sun 11-9p	832-319-6675	The Conservatory 	\$	<u>STEAK</u>	
Salata 	\$	1010 Prairie St Underground beer garden & food hall. Hrs: Mon-Thur 11-12a, Fri-Sat 11-3a, Sun 11-10p	832-919-8382	Morton's Steakhouse	\$\$-\$\$\$\$
1201 Fannin Salad Bar, wraps, soup. Hrs: Mon-Sat 10:30-8p, Closed Sun	713-275-1088	Local Foods 	\$-\$\$	1001 McKinney Classic dining experience, steak & seafood. Hrs: M-Th 5:30-10p, Fri-Sa 5:30-11p, Su 5-10p	713-659-3700
<u>ASIAN</u>		420 Main street Seasonal menu with locally-sourced ingredients. Hrs: Mon-Sun 10a-8p	713-227-0531	Pappas Bros. Steakhouse	\$\$-\$\$\$\$
The Blue Fish 	\$-\$\$	Phoenicia 	\$-\$\$	1200 McKinney St. Upscale Steakhouse, Live Piano. Hrs: Mon-Thur 4-10p, Fri-Sat 4-11p, Closed Sun	713-658-1995
550 Texas Ave Sushi, outdoor patio, (at Bayou Place). Hrs: Mon-Fri 11a-3p/5p-11p; Sat 5-11p, Sun 5-10p	713-225-3474	1001 Austin St Gourmet menu, salad bar, gelato, daily events Hrs: Mon-Fri 7a-9p, Sat-Sun 9a-8p	832-360-2222	Vic & Anthony's Steakhouse	\$\$-\$\$\$\$
China Garden 	\$	<u>ITALIAN</u>		1520 Texas Upscale steakhouse, live music nightly. Hrs: Mon-Fri 11-11p, Sat-Sun 5p-10p	713-228-1111
1802 Leeland Family-owned since 1969. Hrs: Mon-Thur 11-10p, Fri 11-11p, Sat 5-11p, Sun 5-9:30p	713-652-0745	Osso & Kristalla	\$\$	<u>NIGHTLIFE</u>	
Kim Son 	\$-\$\$\$	1515 Texas Modern & rustic Italian trattoria, local ingredients. Hrs: Mon-Fri 7a-10p, Sat 10a-11p, Sun 10a-9p Brunch: Sat/Sun 10a-2p	713-221-8888	<u>Conference District</u>	
2001 Jefferson Family-owned serving Vietnamese & Chinese. Hrs: Open Daily Sun-Sat 11a-10p	713-222-2461	*Damian's Cucina Italiana	\$\$	Hilton Americas	Mon-Sun 2p-2a
<u>AMERICAN</u>		3011 Smith Fine dining, North Italian cuisine, family-owned. Hrs: Mon-Fri 11a-2p/5:30-10p; Sat 5p-10p; Closed Sun	713-522-0439	MKT Bar	Mon-Wed 2p, Th-Fri 2p-2a, Sun 9a-8p
*Brennan's of Houston	\$\$-\$\$\$\$	*Piola	\$\$	Pete's Dueling Piano Bar	W/Th 7p, F/Sa 7p-2a
3300 Smith St. New Orleans Creole-Southern seafood. Hrs: Mon-Fri 11a-2p/5:45-10p, Brunch: Sat 11a-2p, Sun 10a-2p	713-522-9711	3201 Louisiana From Italy, traditional homemade gnocchi. Hrs: Mon-Th 11a-10p, Fri 11a-12a, Sat 12p-12a, Sun 12p-11p	713-524-8222	Reserve 101	Mon-Sat 2p-2a, Sun 5p-2a
				<u>East Downtown</u>	
				8th Wonder Brewery	M-Sa 11a-10p, Su 11a-6p
				Lil Woodrow's	Sat-Sun 11a-2a, Mon-Fri 3p-2a
				Lucky's Pub	Mon-Sun 11a-2p
				Neil's Bahr	Mon-Sun 4p-2a
				*Not shown on map	
				Vegetarian Options 	

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