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Premier content & networking event for the modern LDAR professional!

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ISA LDAR Program Co-Chairs:

Deever Bradley, ERM

Deever Bradley holds a Bachelor’s Degree in Chemical Engineering from Cornell University and is a licensed professional engineer in Texas. A Partner based in ERM’s Houston office, he has 24 years of experience as an environmental consultant, focused primarily on air quality permitting and compliance for industrial clients throughout Texas and the Gulf Coast. Mr. Bradley is ERM’s subject matter expert for LDAR, with experience in nearly every aspect of it, having worked on over 350 LDAR-related projects across the U.S. for the refining, chemical, and pharmaceutical industries. He has been to all but one ISA LDAR Symposium, and this is his fourth year as co-chair.

Matt Gobert, VP, EMSI

Matt Gobert is the Vice President of Business Development for Emission Monitoring Service, Inc. With over 25 years of experience, he has successfully implemented major LDAR programs for chemical and energy customers across the United States. Matt has extensive knowledge negotiating Consent Decree’s and has developed LDAR Programs at over 50 different facilities throughout the country, including refineries owned by ExxonMobil, Shell, Marathon Oil, Sinclair Oil, Valero, Delek, Flint Hills Resources and Navaho Refining.

Matt is a member of the Air & Waste Management Association (A&WMA), American Fuel and Petrochemicals Manufacturers (AFPM). Recently he was elected secretary of the Gulf Coast Chapter of the AWMA for 2017.

Galveston Island Awaits You!

The 2017 LDAR Symposium program features expert presentations and speakers, technical training courses, a showcase exhibition, and valuable social networking opportunities. Feel more confident that you are up-to-date on the latest and most effective practices in air compliance, air emission reduction, and leak detection and repair strategies.

REASONS TO ATTEND:

✔ Review current and upcoming emissions regulations

✔ Discuss regulations from the US EPA

✔ Gain the essential training needed to meet changing compliance demands and requirements

✔ Discover the latest technologies and solutions from leading LDAR vendors

✔ Network with colleagues and like-minds in the LDAR industry

Register Now! www.isa.org/LDAR2017

VENUE

The Tremont House/Wyndham Grand Hotel
2800 Ships Mechanics Row
Galveston, TX 77550 USA
Phone: +1-409-763-0300
www.thetremonthouse.com
$189.00/Night (ISA Rate)

This year’s event provides the best of both worlds, encompassing a historic island hotel conference location, and day/evening leisure destinations with the Strand, bayside and seawall areas including Pleasure Pier, Moody Gardens and more!

This premier Galveston Island location is just a short hour-ride from Houston Area airports, and 20 minutes from the Johnson Space Center and Kemah Boardwalk.

Drive or Uber in on arrival, but Lyft out upon departure. Taxis/shuttles also available between local hotel properties.
Moving Targets: A Look at LDAR Interpretations and Justifications
Christopher Lehmann, Graham Harris, and David Ranum, TriCord Consulting

Leak Detection and Repair (LDAR) rules were first written more than thirty-six years ago. Since this time there have been changes in technology, interpretations, and approaches to the control of fugitive emissions. This presentation will focus on discussing some of these changes including the inclusion and controls of fugitive emissions components and streams by permit, monitoring schedules for new and existing equipment, more rigorous delay of repair expectations, the classification of difficult-to-monitor components, enhancements to EPA Method 21, the allowance of optical gas imaging in lieu of Method 21 monitoring, dealing with sensory leaks, and what today is considered to be an appropriate monitoring speed.

Client Expectations vs. Operational Realities
Jerry Duke, PSC

Everybody wants the best resources for their facility at the lowest cost. This presentation will explore the challenges of running an effective LDAR program from the perspective of a customer and a service provider, and attempt to align the needs of both parties into a common vision for success.

What is the Best Day for Monitoring?
An Examination of an LDAR Urban Legend
Andrew Gunn, EMSI

Monitoring data analysis to identify performance factors that impact technician’s abilities to find leaks suggest the monitoring day and other trends have more of an impact than one might normally think.

Practice Makes Perfect: A Progress Report on the AWP
Karen Marsh, EPA OAQPS

EPA will provide an update on developments related to the 2007 Alternative Work Practice for Optical Gas Imaging and the prospect for utilizing the AWP in lieu of Method 21 monitoring.

Using Satellite Data to Reduce Equipment Leaks
Dan Paquette, Satelytics, Inc.

Satellites and big data are transforming the way energy transmission companies monitor and manage their critical infrastructure. Explore the science of remote sensing, used by companies like Satelytics, to effectively comb terabytes of satellite data to detect small leaks.

Ultrasound Testing and Certification for Leak Detection
Terrance O-Hanlon, Association of Asset Management Professionals

Airborne Ultrasound Testing has been well established for over three decades and involves the detection of turbulent flow between the frequencies of 20 kHz – 100kHz which is then translated into audible signals and displayed as relative signal strength on a digital display.

(continued)
Applications & Field Results for Quantitative Optical Gas Imaging

John Morris and Dr. Yousheng Zeng, Providence Photonics

This presentation will discuss applications and field testing results for QOGI, primarily in the upstream oil and gas industry. QOGI results are compared to known release rates and other quantitative methods. Applications for QOGI in both upstream and downstream oil and gas and petrochemical industries are discussed. Comparisons are made between available quantification technologies in the context of Leak Detection and Repair.

Identifying Innovative Solutions to Difficult Problems Regarding Methane Emission Monitoring

Andrew Liptak, United Electric Controls

Federal and state regulations have been introduced to reduce methane emissions in new, reconstructed, and modified sources within the Petroleum and Natural Gas Industry through monitoring, identifying, and repairing leaks. These regulations specify periodic manual checks of infrastructure with an OGI camera or using Method 21, both which exhibit high labor cost. State regulations have suggested continuous monitoring, all but impossible with a manually operated method of detection. The technical contradiction of minimizing cost to monitor while maximizing the time the infrastructure is being monitored must be addressed.

Real-Time Pipeline Monitoring with the Industrial Internet of Things

Murat Ocalan, Rheidi, Inc.

Aging pipeline infrastructure is a growing problem in the United States and around the world. A large majority of pipeline leaks are not detected by the system used today, resulting in large and expensive environmental spills. Petrochemical industry with underground assets near coastal communities is especially vulnerable to liabilities associated with undetected leaks. A new leak detection system was recently developed utilizing Industrial Internet of Things (IIoT) and machine learning technologies.

The system can be easily deployed on legacy pipeline assets allowing real-time monitoring. The field sensors are sensitive to acoustic emissions from the leak event. They are deployed in the field with low-power long-range networks which allow for interfacing with a central backend where machine learning analytics are utilized. The system was recently deployed on an underground pipeline with a wide-range of leaks induced and detected. With the use of this system an asset owner is able to detect small leaks before they turn into large and costly spills.

RCRA BB: Is Your Facility Ready for USEPA’s Next LDAR Inspection Focus?

Inaas Darrat, Trinity Consultants

After 15 years of emphasizing traditional NSPS and NESHAP LDAR rules, EPA’s Enforcement Initiative has shifted its focus to RCRA Subpart BB, a potentially overlooked regulation that applies to components in service for waste handling or storage. This presentation will review those requirements and identify commonly overlooked aspects to improve compliance.

The Definitive Word on Instrument Calibration

Deever Bradley, P.E., ERM

Proper instrument calibration and operation is essential to finding leaks, but its role and importance to a robust LDAR program can be overlooked. Even if you’ve calibrated hundreds of times before, there are a number of commonly misunderstood or misapplied requirements of Method 21. This presentation will review common calibration compliance issues and highlight some unique findings from compliance audits, including the enhanced requirements under NSPS Subpart VVa and Consent Decrees. Topics will include daily calibration, performance tests, and Method 21 instrument specifications. A particular focus will be empirical testing to show the impact of the sample flow rate on the calibration value and the instrument’s ability to detect leaks.
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