Fugitive Emissions Summit Americas

January 24th – 25th, 2024

San Jacinto College LyondellBasell Center For Petrochemical, Energy & Technology

DAY ONE: Wednesday , January 24th, 2024

9:30 AM	Keynote 1	*Net Zero by 2050* - Naomi Jabbari, **S&B Engineers and Constructors**
10:00 AM	Keynote 2	*Hi, I am from Corporate & I am Here to Help* - Brian Blowers, **Phillips66**
10:30 AM	Keynote 3	*Role of Technology Toward Sustainability* - Brindesh Dhruva, **Bray International**

11:00 AM *Coffee Break*

11:30 AM - 1:00 PM

Low E Valve Technology
Installation, Operation & Maintenance Workshop

Location: 1435 Craft Lab

Moderator: Rodney Roth, **Nippon Pillar/RFS**

This session will cover practical maintenance and installation practices needed to maintain a successful emissions program. The session will include a traditional valve repacking demo, Drill & Tap repack, and more.

Presenters:

Traditional Packing Installation – Rodney Roth, **Nippon Pillar/RFS**

Drill and Tap Demo – Tim Cardozo, **HPC Industrial**

Design of Bolted Flanged Joints to Reduce Fugitive Emissions – Stefan Hufnagel, **Amtec North America**

Designing and Testing Low Emissions Ball Valves – Chris Rupp, **Bray International**

Emissions Technology
Net Zero Panel Discussion

Location: 1003/1005 Conference Room

Moderator: Naomi Jabbari, **S&B Engineers and Constructors**

As the world faces rapid global warming and increased greenhouse gases (GHG) we learn how to adapt to major changes due to decarbonization requirements. This panel will discuss Circular Economy, Behavioral Change, Electrification, Hydrogen and Hydrogen based fuels, Biofuel and CCUS, and new regulations in oil and gas production that will help to minimize GHG emissions while providing the demand for clean energies.

Panelists:

Brindesh Dhruva, **Bray International**

Jonathan Maddox, **Nippon Chemical Texas Inc.**

Tim Goedeker, **Consultant**

Shayan Sean Niknezhad, PHD, **Texas A&M Energy Institute**

Muhammad Islam, **S & B Engineers and Constructors**

Sean Zadeh, **Lumi Services**

1:00 PM

2:00 PM - 4:00 PM

Environmental Impacts
Sustainability and the Key Low E Solution Panel Discussion

Location: 1003/1005 Conference Room

Moderator: Ron Frisard, **FSA/A.W. Chesterton**

This panel will discuss the concerns of emerging contaminants (PFAS and others) in the production of sealants, PTFE and others, which help minimize and eliminate fugitive emissions. The panel will also discuss the sustainability of Low and No GHG emissions solutions balanced against their impact on biodiversity (water, land use, and plants/animals/insects).

Panelists:

Tim Goedeker, **Consultant**

Foster Voelker, **Williams Valve**

Jonathan Maddox, **Nippon Chemical Texas Inc.**

Gobind Khiani, **GAPV**

Low E Valve Technology
Installation, Operation & Maintenance Workshop

Location: 1435 Craft Lab

Moderator: Rodney Roth, **Nippon Pillar/RFS**

Installation, operations & maintenance functions, duties, and labor associated with the daily operations and normal repairs, replacement of parts, and other activities needed to maintain a successful emissions program. This session will cover practical maintenance and installation practices including a traditional valve repacking demo, Drill & Tap repack, and more.

Presenters:

Traditional Packing Installation – Rodney Roth, **Nippon Pillar/RFS**

Drill and Tap Demo – Tim Cardozo, **HPC Industrial**

Impact of Repair and Remanufacture on the Fugitive Emissions Certification of Valves – Matthew Doherty, **SLB**

The Effects of Production Conditions on ISO 15848-2 Testing Results – Vanessa Mertes, **Bray International**

Bolted Joint Demo: How to Mitigate Emissions – Mark Ruffin and Benito Rodriguez, **Teadit**

Emissions Technology
Emission Monitoring Technology Workshop

Location: 1318 Process Control Lab

Session Chair: Dave Anderson, **Score Group**

Having reliable leak detection systems brings many benefits. Detecting leaks as early as possible typically leads to lower repair costs and shorter downtime periods. These systems can also generate critical data that can be used to demonstrate compliance with legislation on emissions and ultimately protect the environment. This session will feature an array of presentations demonstrating monitoring technologies, testing methods, regulatory updates, and more.

Presenters:

Internal Seat Failure/Midas Meter Demonstration – Dave Anderson, **Score Group**

Sniffer Demo - Kevin Moses, **LDARTools**

The case to use Argon as a safe probe gas for qualifying equipment for low fugitive emissions - Raghu Madhavan, **SLB**

Sealing the Gap: Understanding Gasket Failure for Emission Reduction - Alireza Zandi Karimi, **Triangle Fluids Controls Ltd.**

Reducing the likelihood of potential Loss of Primary Containment (LOPC) incidents from valves through Machine Learning algorithms to identify trends and correlations between LDAR survey data, frequent stem leaks, and Tier 1 & Tier 2 LOPC events – Wojciech Zmudzinski & Richard Sobilo, **BP**

4:00 PM *Happy Hour*

FUGITIVE EMISSIONS SUMMIT AMERICAS

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DAY TWO: Thursday, January 25th, 2024

9:30 AM	Keynote 4	*Lessons Learned From Our Gas Processing Plant Consent Decree* – Don Kinder, **Marathon Petroleum**
10:00 AM	Keynote 5	*Forever Chemical, or Not - PTFE is the Key to Reducing Fugitive Emissions* – Tim Goedeker, **Consultant**
10:30 AM	Keynote 6	*If it Ain't Broke Don't Fix it (or SHOULD You?)* – Emma Vafi, **Lumi Services**
11:00 AM	*Coffee Break*	

11:30 AM - 1:00 PM

Environmental Impacts
Navigating Environmental Compliance using Sealing Technology Panel Discussion

Location: 1003/1005 Conference Room

Moderator/Session Chair: Brian Blowers, **Phillips66**

Many countries are working to achieve their environmental objectives by ensuring compliance with environmental rules and regulations.

This panel will discuss:

- Ways to approach and ensure compliance using sealing technologies, selecting the right materials and styles for the application.
- Common challenges seen with the types (Deflector/positive seal) devices (molded rubber seals, extrusions, lathe-cuts, gaskets, packing, teflon seals, mechanical seals, graphite, cloth, metal seals, O-rings, and metal rings), and sealing technologies.
- Some strategies to develop and help prepare for the future.

Panelists:

John Lu, **United Valve**

Rodney Roth, **Nippon Pillar/RFS**

Trace Scrivner, **ExxonMobil**

Paul Heald, **Bonney Forge**

Mark Ruffin, **Teadit**

Low E Valve Technology
Low E Valve Design Panel Discussion

Location: 1436 Craft Lab: Pipefitting/Millwrighting

Moderator/Session Chair: Brindesh Dhruva, **Bray International**

Packing and valve technology is designed to provide long-lasting Low E performance, provided the valve is maintained in accordance with installation, operation, and maintenance (IOM) guidance. This panel will discuss the incentives and technologies behind Low E designs and how they are becoming increasingly important.

Panelists:

Foster Voelker, **Williams Valve**

Daniel Angulo, **Teadit**

Greg Johnson, **United Valve**

Ken Sundberg, **Bray International**

Charles Metrailer, **MRC Global**

Emissions Technology
Emerging Monitoring Technology Panel Discussion

Location: 1134 Instrumentation Lab

Moderator/Session Chair: Richie Ritter, **Emerson**

This panel will discuss the emissions monitoring systems that are available today and how they will continue to impact fugitive emissions reduction and mitigation efforts.

Panelists:

Kevin Mosses, **LDAR Tools**

Michael Kitchens, **Bray International**

Gage McCoy, **Qube**

1:00 PM *Lunch*

2:00 PM - 4:00 PM

Environmental Impacts
Emerging Technologies

Location: 1318 Process Control Lab

Session Chair: Frank Campagna, **Emerson**

This session will include presentations on emission technologies and solutions that can have a significant benefit to the environment.

Presenters:

Fugitive Emissions Risk - Hydrogen produced with CCS Technology – Bruce Ofori & Suzanna Grills, **Emerson**

The Opportunities of Emissions Monitoring – Dave Anderson, **Score Group**

Methane Mitigation - Update on EPA 40 CFR 60 in Regard to Natural Gas-driven Pneumatic Controllers – Tim Chicoine & Gobind Khiani, **WedgeRock & Enbridge**

Injection and Storage Requirements for CO_2 Sequestration in Deep Saline Aquifers – Larry Chorn, **TERRACOH, Inc.**

Tracking NO_2 Pollution Changes Over Texas: Synthesis of In Situ and Satellite Observations – Madhu Gyawali, San Jacinto College

Low E Valve Technology
Emerging Technologies

Location: 1147 Valve Test Lab

Session Chair: Trace Scrivner, **ExxonMobil**

This session will include presentations on emerging Low E valve technologies for the prevention and reduction of fugitive emissions.

Presenters:

PRVs - Best Practices and New Technologies to Address Vented and Fugitive Emissions – Adam Attig & Ricardo Garcia, **Emerson**

Prognostic Valve Maintenance through Diagnostics with Valve Condition Monitoring – Mike Tingley, **Emerson**

Electro-Hydraulics provide a greener solution – Howard Williams and Shahrum Iqbal, **Bray International**

How Mounting Kits Impact Valve Safety and Reliability – Chris Fabbri, **VanAire**

Advancing Decarbonisation with Oxford Flow's ES Stemless Valve: A Breakthrough in Zero-Emissions Flow Control - Dr. Chris Kennell, **Oxford Flow**

Emissions Technology
Emerging Technologies

Location: 1003/1005 Conference Room

Session Chair: Tim Goedeker, **Consultant**

This session will include presentations on emerging sealing technologies and how they are impacting the ongoing efforts to mitigate emissions.

Presenters:

Characterizing and Managing Fugitive Emissions Using Intelligent Continuous Monitoring – Dennis Prince & Michelle Liu, **Airdar**

Utilizing Augmented Reality in Remote Assistance to Reduce Fugitive Emissions – Richie Ritter, **Emerson**

TBD – Ron Frisard, **FSA/A.W. Chesterton**

B16.20 Testing and Our Environmental Calculator - Mark Ruffin and Tim Goedeker, **Teadit**

Ammonia & CO_2 LDAR - Laser Gas Imaging Technology for Detecting Leaks of Ammonia & CO_2 in Facility Infrastructure, Pipelines and ROW's – Roy Massengale, **EnRUD Resources, Inc.**

Cost Effective Conversion of Methane Driven Pneumatic Actuators to a Zero-Emission Platform – Bob Connal, **Hybrid Automation Inc.**

**** The Conference Program is subject to change.*