



BAYFRONT CONVENTION CENTER
ERIE, PENNSYLVANIA
SEPTEMBER 24-26
www.shaleinsight.com

SUGGESTED BREAKOUT SESSION TOPICS

CRYSTAL LEVEL SPONSOR

Celebrating its 14th year, SHALE INSIGHT® 2024 is proud to offer continuing educational technical and public affairs Breakout Sessions created and presented by subject matter experts. Sponsorship is available on a first-come, first-served basis for eleven (11) 75-minute sessions from the suggested topics below or from a timely and relevant industry issue that may arise. The sponsoring company will be required to take a leading role in building the session and recommend a breakout format from those outlined on page five. To inquire about sponsorship, please contact Robert Petrilli at rpetrilli@marcelluscoalition.org or 412-706-5173.

TECHNICAL SESSIONS

1. **“A Technical Session Topic of Your Choosing”**

This is an opportunity for you to select a topic and provide a title, short description and session format. Please submit to the MSC for consideration with the sponsorship form.

2. **Technology Showcase**

The annual Technology Showcase provides suppliers of emerging technologies an opportunity to introduce their innovation to the natural gas producer, midstream/pipeline, downstream and service community. The MSC Research Collaborative solicits applications for these technologies and awards top applicants with an opportunity to present.

➤ Suggested Session Format: Expert Lecture

3. **Methane Emissions: Where Technology Meets Regulations**

Recently, the USEPA proposed a substantial overhaul to the federal methane regulations that will have significant impact on the industry, as well as a new Waste Emissions Charge. Methane engine slips, wellhead liquids unloading, and new zero emission methane BMP standards are just some of the items being worked through. This session will present an overview of the proposed federal methane regulatory reach and explore its relationship to new technologies and BMPs.

➤ Suggested Session Format: Expert Lecture or Panel

4. **PFAS: Understanding and Navigating the Current Regulatory Environment**

Within the last several years so much has been discussed and regulated on the PFAS family of chemicals. So, what’s the big deal? What do we know about PFAS? This session will provide an overview on PFAS and how laboratories and environmental firms are reacting to the ever-changing regulations, reporting requirements, and cleanup standards.

➤ Suggested Session Format: Expert Lecture, Roundtable or Panel

5. **Mining Produced Water: New Technologies in Critical Mineral Extraction**

Industry produced water is a valuable commodity, not just for recycling and reusing for the next well, but recently technologies have been developed to extract lithium and other valuable rare earth metals for use in a variety of products. This session will present an overview of new technologies being utilized to extract rare earth metals from produced water and the opportunities from these metals.

➤ Suggested Session Format: Expert Lecture or Panel

6. **Water Infrastructure: Installation, Operations and Maintenance**

As the “play” has matured, trends in water procurement, management and transfers have changed with increase automation and a reduction in personnel. Similarly, companies have invested significantly in water pipelines and other facilities. Hear from industry experts on the latest trends in water infrastructure, operations and maintenance.

➤ Suggested Session Format: Expert Lecture or Panel

7. **Hydrogen: How will the product be transported?**

Most know of the technical challenges of producing hydrogen, however, there are also technical challenges to design, install, and transport hydrogen through pipelines. During this session industry experts will describe the challenges and opportunities to transport hydrogen through pipelines, both new and existing.

➤ Suggested Session Format: Expert Lecture, Roundtable or Panel

8. **Unmanned Aerial Vehicles: Enhanced uses in the field**

Drones have been used in the industry for some time now and have been very useful for surveying, reconnaissance, and quickly identifying issues in the field. Recently Pennsylvania has begun to ask for all drone footage when inspecting E&S, PCSM and other BMPs. This session will provide an overview of the capabilities of drones and the reality of some of the new requirements being placed on operators by regulatory agencies.

➤ Suggested Session Format: Expert Lecture or Panel
9. **How Artificial Intelligence is Reshaping Natural Gas Operations**

Artificial Intelligence (AI) can be deployed in all sectors of the natural gas industry to optimize performance, achieve emissions goals, and improve return on assets. Hear how machine learning and cutting-edge technology is currently being utilized and what the future holds.

➤ Suggested Session Format: Expert Lecture or Panel
10. **Big Data: Benchmarking your Performance and that of the Competition**

There is a massive amount of industry data out there from compiled public and sometimes non-public sources containing information on well designs, frac designs etc. This data promotes greater understanding of what competitors are up to and the direction that the industry is heading. This session will provide an overview on how this data can be collected and utilized.

➤ Suggested Session Format: Expert Lecture or Panel
11. **The Electrification of the Natural Gas Industry: Challenges and Opportunities**

Recently there has been a push to electrify drilling equipment and operations onsite in an effort to reduce emissions and achieve carbon footprint goals. This session will feature industry experts examining the shift to electric equipment, including skids, drilling rigs, wireline, etc. and the benefits to the industry and the environment.

➤ Suggested Session Format: Expert Lecture, Roundtable or Panel
12. **On Pad Compression: Meeting the Needs of a Mature Basin**

As the play has matured in the Appalachian Basin several operators have piloted compression at well pads. This has built efficiencies but brought with it challenges to overcome. This session will feature experts from industry that will discuss the opportunities and challenges from on pad compression, including best practices, regulatory obstacles, and new technologies.

➤ Suggested Session Format: Roundtable or Panel
13. **The Need for Natural Gas in a Reliable and Resilient Power Grid**

Several forces, political and self-induced, are poised to affect the reliability of the US electrical grid. Central to this is the development of natural gas and getting it to market. During this session, experts will discuss the reliability of the grid and what must be done to maintain US energy independence by producing and transporting clean, affordable, and abundant natural gas to power the grid.

➤ Suggested Session Format: Expert Lecture, Roundtable or Panel
14. **Threatened & Endangered Species: Tracking Birds, Bats, Butterflies and Bees**

This session will focus on the identification and protection of threatened & endangered species during industry activities. Agency and industry experts will share updated information for how these species are identified, tracked, and protected. Over time new innovations and tools have been developed to protect these species. This session will provide a focus on recently listed bats and the potential impacts to the industry.

➤ Suggested Session Format: Roundtable, Thinktank or Panel
15. **Fleet Management: Conversion to Alternative Fuels**

Recently there has been an effort at both the state and federal level for the conversion of fleets and personal vehicles to alternative fuel sources, including CNG, LNG and Electric. This session will provide a high-level overview of this conversion effort and what effect on the state gas tax revenue it will have. In addition, experts will discuss alternative funding scenarios, including usage fees (paying per mile), among others.

➤ Suggested Session Format: Expert Lecture or Panel
16. **Beyond Tier One Acreage: How Advances in Engineering and Geologic Understanding are Enhancing Economics**

As the “play” has matured, the prime development acreage has been spoken for. However, due to domestic energy needs, advancements in engineering and geology are exploring areas that were not thought to be feasible. Hear from industry experts on the latest trends in these advancements and how they are successfully being explored.

➤ Suggested Session Format: Expert Lecture or Panel

PUBLIC AFFAIRS SESSIONS

1. **“A Public Affairs/Legal Session Topic of Your Choosing”**
This is an opportunity for you to select a topic and provide a title, short description and session format. Please submit to the MSC for consideration with the sponsorship form.
2. **Keeping Safety Fresh: Instilling a Culture of Safety in the Workplace**
Companies work diligently to keep safety front of mind for their workforce. This includes table-top and real field drills. In addition, companies are looking at ways to instill a culture of safety and focusing on the people aspects in terms of mindset, culture, and psychology. This session present case studies and an overview of what companies do to keep safety fresh with their workforce.
➤ Suggested Session Format: Expert Lecture, Roundtable or Panel
3. **Beyond the Pause: The Future of LNG**
The Appalachian Basin is a leader in LNG production and the opportunities for domestic use and export are almost limitless. However, infrastructure challenges and the recent pause on new export permits presents challenges. Hear from industry and subject matter experts on the opportunities and how to overcome these challenges.
➤ Suggested Session Format: Expert Lecture, Roundtable or Panel
4. **Climate Related Financial Disclosures: New SEC Rules**
This year the Securities and Exchange Commission (SEC) finalized new rules to enhance and standardize climate-related disclosures for investors. For industry this would mean disclosing Scope 1 and 2 emissions. This session would provide an overview of the new rule and how it may affect industry and potential investment.
➤ Suggested Session Format: Expert Lecture, Roundtable or Panel
5. **Playing in the Same Sandbox: Accommodating Competing Oil and Gas, Renewable, and CCUS Projects**
Energy development in the United States has both global and domestic implications with many competing for the same areas. This session will look at the competing interests of energy sources and projects and if there are ways they can exist together. In addition, the session will touch on landowners, public agency and other interested stakeholder engagement.
➤ Suggested Session Format: Expert Lecture, Panel or Roundtable
6. **Natural Gas Commodity Pricing: What’s Causing the Volatility and When Will it End?**
Commodity pricing in the natural gas industry appears to be completely divorced from current events that should have an impact. This session will explore the volatility of Henry Hub/spot pricing and the impact of outside events like climate change, LNG, Freeport and other global events. In addition, infrastructure buildout will be discussed, as well as additional LNG facilities coming online and if energy policies will change, including the Jones Act.
➤ Suggested Session Format: Expert Lecture, Panel or Roundtable
7. **Pipelines: Does the Current Regulatory Landscape Accommodate New Projects?**
Recent challenges have mounted for obtaining permits to construct pipelines to connect markets, from both FERC and anti-groups. Recently FERC proposed a Climate Policy review as part of their permit application requirements and delays on current permits continue to mount. Industry experts will present a snapshot of current projects awaiting approval and what must be done to connect markets with pipelines.
➤ Suggested Session Format: Expert Lecture, Panel or Roundtable
8. **Environmental Justice: Navigating Concerns of Multiple Stakeholders**
Proposed updates to the Environmental Justice Policy have raised concerns on the purpose of the policy and the intent of the protections guaranteed by it. Industry and agency experts will provide an overview of the policy and how to navigate concerns resulting in the proposed updates.
➤ Suggested Session Format: Expert Lecture, Panel or Roundtable
9. **Sustainability: Target-Setting, Tracking and Performance**
Environmental, Social and Governance (ESG) goals have been implemented by companies in a variety of different ways. This session will feature industry experts that will discuss how they target set, track and manage these goals to a diverse group of internal and external stakeholders.
➤ Suggested Session Format: Expert Lecture, Panel or Roundtable

10. **Workforce Development: An Evolving Industry needs an Evolving Workforce**

As the Marcellus and Utica Shale development matures and focuses on downstream and end use development, the needs of the workforce change. This session will include presentations from colleges and universities in the region and how they are evolving and preparing their students to meet these needs. In addition, industry and labor experts will provide input on where future workforce needs will be.

➤ Suggested Session Format: Panel

11. **Permitting Reform: What Works and What Doesn't**

Hear from policy experts on the clear and present need for permitting reform at both the state and federal levels of government. Explore current and historical reform proposals and what it really takes to infuse predictability and consistency in the permitting process.

➤ Suggested Session Format: Expert Lecture, Panel or Roundtable

12. **Municipal Ordinances: Navigating Between the How and the Where**

This program will provide an overview of the uncertain legal authority of local government efforts to restrict unconventional shale development throughout the Appalachian Basin. It will address specific examples and how to potential navigate development in municipalities.

➤ Suggested Session Format: Expert Lecture or Panel

13. **Communicating Effective Industry Compliance to the Public**

Since unconventional shale development began in Pennsylvania the natural gas industry has operated at a high level of compliance through a combination of innovation and adherence to Pennsylvania DEP's stringent regulatory and inspection standards. One of the largest challenges is effectively communicating this high level of compliance and engaging the public, from local officials to regular citizens. This session will feature public affairs experts that have kick started successful communication campaigns to highlight this compliance effectively.

➤ Suggested Session Format: Expert Lecture or Panel

Session Formats

Expert Lecture (75 Minutes)

Expert Lectures are presentations by a SINGLE acknowledged expert in the field who will share conceptual or methodological innovations through a lecture followed by response to audience questions. The lecturer must be able to demonstrate and provide proof of expertise on suggested topic.

Required: 1 Presenter / Optional: PowerPoint; Handouts; Hands-on visual aids

Panel (75 Minutes)

Panels are structured, thematic presentations focusing on an issue facing the field of evaluation. A moderator will introduce two to three panelists delivering coordinated presentations within set timeframes. The moderator will observe each presentation and offer a brief response to the content and facilitate question and answer at the end of the session. Others employ a more discussion-oriented format with the panelists responding to each other and to audience inquiries throughout the session. The sponsor/moderator is responsible for coordinating the presentations in advance.

Required: 1 Moderator; 2-3 Panelists / Optional: PowerPoint; Handouts; Hands-on visual aids

Roundtable (75 Minutes)

Roundtables are presentations that include in-depth discussion with attendees. Roundtable presentations typically include 45 minutes of presentation on 1-2 pertinent topics, followed by 30 minutes of feedback and engaging in in-depth discussions. Roundtable presenters should bring targeted questions to pose to others at the table and audience to learn from and with those attending.

Required: 1 Moderator; 2-3 Presenters / Optional: PowerPoint; Handouts; Hands-on visual aids

Skill-Builder (75 Minutes)

Skill-builders teach a specific skill needed by many in the field and include one or more exercises that let attendees practice using this skill. This session differs from a Demonstration in that attendees will have a hands-on opportunity to practice the skill. Attendees should be ready to get involved as these sessions are not passive, but rather active opportunities for learning.

Required: 1-2 Presenters; Handouts; Hands-on visual aids (for demonstration and attendee use) / Optional: PowerPoint

Think Tank (75 Minutes)

A think tank is a session focusing on a single, pre-determined issue or question. Initially, a subject expert/moderator orients attendees to the issue or question and relevant context. Then, attendees break into small groups to explore the issue or question and finally reconvene to share their enhanced understanding through a discussion facilitated by the subject expert/moderator. The roles of the individual breakout groups will be pre-determined and executed on-site (Will they each address the overall topic or question? A particular facet of the topic or question? Or examine the topic or question from a particular viewpoint?). Each breakout group may have individual facilitators pre-appointed by the subject expert/moderator.

Required: 1 Subject expert/Moderator / Optional: 2-5 facilitators; PowerPoint; Handouts; Hands-on visual aids