

# GM LINK

---

## newsletter



GMRC

May 2023

## 2023 Gas Machinery Conference Registration is Open!

Join us at Gas Machinery Conference 2023 in Phoenix October 1-4 and take your natural gas engineering career to new heights!

At GMC 2023, you'll:

- ✓ Gain technical skills to boost productivity
- ✓ Access the latest industry research and technology
- ✓ Network with professionals nationwide
- ✓ Explore dozens of technical papers and short courses
- ✓ Engage with industry-leading providers

Don't miss the premier event of the year, hosted by subject matter experts. Register now with early bird discounts!

**REGISTER NOW**

## Upcoming Workshops

### Factors of Compressor Station Design | May 3 & 17, June 21 & 27, 2023

Virtual Workshop | 16 PDH

Reciprocating and Centrifugal compressors are widely used in the natural gas industry; but when, where, why, how to use each technology is less understood. In this 3-day training course, attendees will learn the key differences between reciprocating and centrifugal compressors and their associated equipment, how to size and select them, and when each is the ideal technology to install. Pros and cons, including financial implications of each technology, will be viewed through the lens of real-world case studies.

[Register and learn more here.](#)

## **Intro to Gas Turbines | June 12 & 19, July 10 & 17**

Virtual Workshop | 8 PDH | [REGISTER HERE](#)

This workshop explains the working principles and components of centrifugal compressors and industrial gas turbines used in the oil and gas industry. Performance characteristics of compressors and their drivers are explained. The application of these machines in different oil and gas applications is discussed. Finally, issues of packaging, seals, fuel and air, testing and condition monitoring are addressed.

## **EAR: Engine Analyzer & Reliability Workshop | July 25–27, 2023**

Ft. Collins, CO | 20 PDH | [REGISTER HERE](#)

Internal Combustion Engines (ICEs) and Natural Gas Compression are the heart of the Oil & Gas Industry, yielding the power to pump vital elements through pipelines across North America. The Engine Analyzer & Reliability Workshop has been designed to equip professionals working on, and responsible for, these assets with predictive and preventative maintenance solutions that are easily transferrable to their current work initiatives.

Join your colleagues and other professionals as you are educated through presentations, demonstration of working models and interaction with industry experts from companies all over the United States. Join us in exploring a unique perspective on Natural Gas Engines and Compression in this jam-packed three-day workshop!

## **Intro to Hydrogen | July 27, 2023**

Virtual, Instructor-Led | 1.5 PDH | [REGISTER HERE](#)

This class will provide a high-level, non-technical overview of current US hydrogen consumption, the most widely used hydrogen production processes and existing facilities. It will explore several avenues to produce hydrogen and compare the costs of hydrogen produced from different processes. We will examine the characteristics of hydrogen and compare hydrogen with natural gas as a fuel in direct combustion applications. Finally, we will consider possible challenges and implications for natural gas midstream and downstream facilities and operations arising from blending or substituting hydrogen for methane in natural gas transport and delivery facilities.

## **Basic Vibration Analysis | September 7, 2023**

Virtual, Instructor Led | 2 PDH | [REGISTER HERE](#)

This 2-hour workshop will go over the fundamentals of vibration theory, followed by a discussion on best practices for making vibration measurements. Using these basic theory and measurement techniques, several case histories will be presented and explained to help the attendees understand real-world applications of these principles.