

Engine Analyzer & Reliability 3-Day Workshop



October 18-20, 2021
Committee Chair, Mary E. Savalle

All Times are Eastern

Day I - Monday, October 18th

- 10:00 a.m. – 12:00 p.m. **Day 1 Introduction to Engines and Compressors**
Mary Savalle, EAR Committee Chair
- 1:00 p.m. – 1:15 p.m. **Day 1 Opening/Welcome/Safety Moment**
Rishi Chauhan, GMRC and Mary Savalle, EAR Committee Chair
- 1:15 p.m. – 2:45 p.m. **Natural Gas Emissions**
Mary Savalle, Radical Combustion Technologies
- 2:45 p.m. – 3:15 p.m. **Troubleshooting: Engine Issues w/o Clear Diagnosis**
Ryan Rudnitzki, Waukesha Gas Engines
- 3:15 p.m. – 3:30 p.m. **Day 1 Break I**
- 3:30 p.m. – 4:15 p.m. **Reliability – Maintenance - Overhaul Planning**
Ronnie Walker, Mueller Environmental | John Hux, Foley Equipment Company
- 4:15 p.m. – 5:00 p.m. **Case Studies – Head End Unloader Not Actuating**
Mark Hullinger, Williams Pipeline
- 6:00 p.m. – 9:00 p.m. **Optional Social Gathering**

All Times are Eastern

Day II - Tuesday, October 19th

- 8:00 a.m. – 8:30 a.m. **Day 2 Opening/Welcome/Safety Moment**
Rishi Chauhan, GMRC and Mary Savalle, EAR Committee Chair
- 8:30 a.m. – 9:30 a.m. **Cloud Based-Engine Balancing**
Kent Peterson, Machinery Monitoring Systems, LLC
- 9:30 a.m. – 10:15 a.m. **Green River #1 Crack Repair**
Mark Hullinger
- 10:15 a.m. – 10:30 a.m. **Day 2 Break**
- 10:30 a.m. – 11:15 a.m. **Case Study – Post Overhaul Issue**
Doug Tillison, TC Energy

- 11:15 a.m. – 12:00 p.m. **Case Study – GCX Commissioning w/ Kinder Morgan**
Ryan Rudnitzki, Waukesha
- 12:00 p.m. – 1:00 p.m. **Day 2 Lunch**
- 1:00 p.m. – 3:00 p.m. **Analysis–Deep Dive**
Keith Schafer, TC Energy
- 3:00 p.m. - 3:15 p.m. **Day 2 Break**
- 3:15 p.m. - 5:00 p.m. **By the Numbers – Compressor Performance Review**
Mary Chapman, Windrock Inc. | Mike Jones, Windrock Inc.

All Times are Eastern

Day III - Wednesday, October 20th

- 8:00 a.m. – 8:15 a.m. **Day 3 Opening/Welcome/Safety Moment**
Rishi Chauhan, GMRC and Mary Savalle, EAR Committee Chair
- 8:15 a.m. – 9:00 a.m. **Reducing Power Cylinder Lubrication Rates**
Bryan Boarts, Sloan Lubrication | Matt McCarthy, Sloan Lubrication
- 9:00 a.m. – 9:45 a.m. **Case Study of Implementing Enhanced Radical Ignition (ERI) in a GMVC6 open-chamber natural gas engine**
Jim McCoy, VP of Operations, Radical Combustion Technologies
- 9:45 a.m. – 10:00 a.m. **Day 3 Break**
- 10:00 a.m. – 11:00 a.m. **High-Speed Engine/Compressor Package Vibration Guidelines and Cases**
Steve McNair, Resonance Systems | Ed Flanagan, Resonance Systems
- 11:00 a.m. – 12:00 p.m. **Waukesha MyPlant Reliability and its Digital Future**
Dylan Abel, Innio
- 12:00 p.m. – 12:45 p.m. **Day 3 Lunch Break**
- 12:45 p.m. – 1:30 p.m. **Guest Speaker**
Peter Senecal, Convergent Science
- 1:30 p.m. – 2:00 p.m. **Ignition Systems (Virtual Presentation)**
Mike Porter, Altronic
- 2:00 p.m. – 2:30 p.m. **Case Study – Ariel CP Valve Efficiency and Reliability**
Scott Heckler, Ariel
- 2:30 p.m. – 2:45 p.m. **Day 3 Break II**
- 2:45 p.m. – 3:30 p.m. **Case Study - Most Challenging Troubleshooting Project (Virtual Presentation)**
William Taylor, Retired

3:30 p.m. – 4:15 p.m.	Case Study – Troubleshooting Combustion Anomalies on High Pressure Fuel Injected and Port-4 Equipped units <i>Steve Hawley, Enginuity (Siemens)</i>
4:15 p.m. – 4:30 p.m.	Closing/Adjourn