

# Engine Analyzer & Reliability 3-Day Workshop



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

*All Times are Central*

**Day I - Monday, October 18<sup>th</sup>**

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| 10:00 a.m. – 12:00 p.m. | <b>Day 1 Introduction to Engines and Compressors</b><br><i>Mary Savalle, EAR Committee Chair</i>  |
| 1:00 p.m. – 1:15 p.m.   | <b>Day 1 Opening/Welcome/Safety Moment</b><br><i>Rishi Chauhan, GMRC and Mary Savalle, EAR Committee Chair</i>  |
| 1:15 p.m. – 2:45 p.m.   | <b>Natural Gas Emissions</b><br>Mary Savalle, Radical Combustion Technologies   |
| 2:45 p.m. – 3:15 p.m.   | <b>Troubleshooting: Engine Issues w/o Clear Diagnosis</b><br><i>Ryan Rudnitzki, Innio</i>   |
| 3:15 p.m. – 3:30 p.m.   | <b>Day 1 Break I</b>  |
| 3:30 p.m. – 4:15 p.m.   | <b>Reliability – Maintenance - Overhaul Planning</b><br><i>Mary Savalle, Radical combustion technologies   Ronnie Walker, Mueller Environmental   John Hux, Foley Equipment Company</i> |
| 4:15 p.m. – 5:00 p.m.   | <b>Case Studies – Head End Unloader Not Actuating</b><br>Mark Hullinger, Williams Pipeline  |
| 6:00 p.m. – 7:00 p.m.   | <b>Optional Roundtable Discussion for all participants</b>  |

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**Day II - Tuesday, October 19<sup>th</sup>**

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| 8:00 a.m. – 8:15 a.m.   | <b>Day 2 Opening/Welcome/Safety Moment</b><br><i>Rishi Chauhan, GMRC and Mary Savalle, EAR Committee Chair</i> |
| 8:15 a.m. – 9:30 a.m.   | <b>Bearing Monitoring</b><br><i>Mitch Stanlowski, Pioneer Engineering</i>                                      |
| 9:30 a.m. – 10:15 a.m.  | <b>Emission Reduction/Antero VOC Issues</b><br><i>Ryan Krafcheck, Innio</i>                                    |
| 10:15 a.m. – 10:30 a.m. | <b>Day 2 Break</b>   |

- 10:30 a.m. – 11:00 a.m. **Case Study – Post Overhaul Issue**  
*Doug Tillison, TC Energy*
- 11:00 a.m. – 11:30 p.m. **Case Study – Oil Pump Failure**  
*Kodey Holley, Southern Star*
- 11:30 a.m. – 12:00 p.m. **Case Study – GCX Commissioning w/ Kinder Morgan**  
*Ryan Rudnitzki, Innio*
- 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*
- 3:15 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.*

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**Day III - Wednesday, October 20<sup>th</sup>**

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- 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. – 9:40 a.m. **Case Study of Implementing Enhanced Radical Ignition (ERI) in a GMVC6 open-chamber natural gas engine**  
*Micharl Manfredi, Radical Combustion Technologies*
- 9:40 a.m. – 10:20 a.m. **Case Studies**  
*Steve McNair, Resonance Systems | Ed Flanagan, Resonance Systems*
- 10:20 a.m. – 10:35 a.m. **Day 3 Break**
- 10:35 a.m. – 11:05 a.m. **Ignition Systems**  
*Mike Porter, Altronic*
- 11:05 a.m. – 11:50 a.m. **MyPlant Reliability/Future of Digital Operations**  
*Dylan Abel, Innio*
- 12:00 p.m. – 12:45 p.m. **Day 3 Lunch Break**
- 12:45 p.m. – 1:15 p.m. **Guest Speaker**  
*Peter Senecal, Convergent Science*

1:15 p.m. – 2:45 p.m.	<b>The Fundamentals of Maintenance Management</b> <i>Randy Anderson, CECO</i>
2:45 p.m. – 3:00 p.m.	<b>Day 3 Break II</b>
3:00 p.m. – 3:30 p.m.	<b>Case Study – Ariel CP Valve Efficiency and Reliability</b> <i>Scott Heckler, Ariel</i>
3:30 p.m. – 4:15 p.m.	<b>Case Study</b> <i>William Taylor, Retired</i>
4:15 p.m. – 5:00 p.m.	<b>Case Study – Troubleshooting Combustion Anomalies on High Pressure Fuel Injected and Port-4 Equipped units</b> <i>Steve Hawley, Enginuity (Siemens)</i>
5:00 p.m.	<b>Adjourn</b>