

Engine Analyzer & Reliability 3-Day Workshop



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

All Times are Central

Day I - Monday, October 18th

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

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Day II - Tuesday, October 19th

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| 8:00 a.m. – 8:15 a.m. | Day 2 Opening/Welcome/Safety Moment
<i>Rishi Chauhan, GMRC and Mary Savalle, EAR Committee Chair</i> |
| 8:15 a.m. – 9:30 a.m. | TBD
TBD |
| 9:30 a.m. – 10:15 a.m. | TBD
TBD |
| 10:15 a.m. – 10:30 a.m. | Day 2 Break |

- 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, 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
- 3:15 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 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. – 9:40 a.m. **Case Study of Implementing Enhanced Radical Ignition (ERI) in a GMVC6 open-chamber natural gas engine**
Michael 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. **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. – 1:15 p.m. **Guest Speaker**
Peter Senecal, Convergent Science

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