

Engine Analyzer & Reliability 3-Day Workshop



July 25-27th, 2023

Committee Chairs, Aaron Carper & Seth Johnson
CSU Powerhouse – 430 N College Ave, Fort Collins, CO 80524

All Times are Mountain Time

Day I - Tuesday, July 25th

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| 8:00 a.m. – 9:00 a.m. | Day 1 Registration |
| 9:00 a.m. – 9:45 a.m. | Vibration related concerns on Waukesha VHP Series <i>Ramiro Quiroga, Resonance systems</i> |
| 9:45 a.m. – 10:30 a.m. | ForceFeed Lubrication for Power Cylinders on Integral Compressors <i>Matt McCarthy, Sloan</i> |
| 10:30 a.m. – 10:45 a.m. | Day 1 Break I |
| 10:45 a.m. – 11:20 a.m. | Station Efficacy: Seeing the Big Picture <i>Mark Hullinger, Williams</i> |
| 11:20 a.m. – 12:05 p.m. | Top Ten List: Collection & Analyze <i>Mary Chapman, Windrock</i> |
| 12:05 p.m. – 12:45 p.m. | Day 1 Lunch/Social Hour |
| 12:45 p.m. – 1:45 p.m. | Engine Analysts and Digital Transformation <i>David Krenek, Monico</i> |
| 1:45 p.m. - 2:45 p.m. | How Differential Pressure Affects Force Feed Lubrication & The Impact on Compressor Cylinder Wear Components <i>West Hickman</i> |
| 2:45 p.m. – 3:30 p.m. | Inflation Reduction Act, Greenhouse Gas Reporting Program and Waukesha Emissions Factors <i>Ryan Rudnitzki, Waukesha</i> |
| 3:30 p.m. – 3:45 p.m. | Day 1 Break II |
| 3:45 p.m. – 4:30 p.m. | Title coming soon <i>Kevin Davies, Siemens Energy</i> |
| 4:30 p.m. – 6:00 p.m. | Open House: Siemens Energy – Fort Collins |
| 6:45 p.m. – 8:30 p.m. | New Belgium Brewery Tour Social event |

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Day II - Wednesday, July 26th

- 7:30 a.m. – 8:15 a.m. **Day 2 Opening/Breakfast**
- 8:15 a.m. – 9:45 a.m. **Leveraging the ½ gram NOx AJAX Technology to Meet Good Neighbor Rule Requirements for other Low BMEP Non-turbocharged Engines**
Hans Mathews, Cooper Machinery Services
- 9:45 a.m. – 10:00 a.m. **Day 2 Break I**
- 10:00 a.m. – 12:00 p.m. **Thermodynamics & HP Curves**
Dwayne Hickman, ACI Services
- 12:00 p.m. – 1:00 p.m. **Lunch/Social Hour**
- 1:00 p.m. – 3:00 p.m. **TBD**
Randy Anderson, Cooper Machinery Services
- 3:00 p.m. – 3:15 p.m. **Day 2 Break II**
- 3:15 p.m. - 3:45 p.m. **Waukesha and Detection Collaboration and Technology Overview**
Dylan Abel
- 3:45 p.m. - 5:00 p.m. **Various Research Projects**
CSU Students
- 5:00 p.m. - 6:00 p.m. **Networking Happy Hour**

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Day III - Thursday, July 27th

- 7:30 a.m. – 8:15 a.m. **Day 3 Breakfast**
- 8:15 a.m. – 9:15 a.m. **TBD**
Mitch Fuller, Cooper Machinery Services
- 9:15 a.m. – 10:00 a.m. **Windrock Vibrations FFT Finds**
Aaron Carper, TC Energy
- 10:00 a.m. – 10:45 a.m. **Using a portable analyzer to calibrate an online system**
Kent Peterson, MMS
- 10:45 a.m. – 11:45 a.m. **Roundtable Discussion**
Seth Johnson, TC Energy
- 12:00 p.m. **Adjourn**