



# Asset Health Monitoring Technologies for Increased Machinery Uptime

## ASME and SAMPE New Mexico Chapter Meeting

To remain competitive in today's global economy, companies are adopting intelligent maintenance systems to reduce costs and productivity loss resulting from equipment failures. Successful asset health monitoring implementation boosts machinery availability and efficiency but requires specialized systems that can measure high speed signals and also perform embedded analysis. Learn about proven machine condition monitoring technologies for predictive maintenance and downtime reduction including:

- Asset Health Monitoring Strategy Overview
- Technical Considerations and Technologies
- Sample Deployments (including):
  - Considerations for Vibration Monitoring
  - Techniques for Automating Thermography
  - Sound Advice for Ultrasonic NDT Test
  - Scenarios for Power and Energy System Acquisition, Analysis and Dissemination

As a complement to the presentation, additional time will be given to illustrate how these same technologies, and in many cases the same hardware, can be used to monitor and control a machine's impact to the environment. Learn how engineers used data acquisition and software in an engine/compressor simulator for factor acceptance testing of control panels to eliminate over 122,000 tons of NOx emissions annually, the equivalent of removing 6 million vehicles from U.S. roads each year.

### About the Presenter – David Bonal [david.bonal@ni.com](mailto:david.bonal@ni.com) National Instruments

During David Bonal's tenure at National Instruments, he provided technical support for the entire NI product line as an applications engineer and developed and taught technical training to hundreds of engineers. He currently works as a field engineer in New Mexico with dedicated support to Sandia National Labs with control, design and test applications. He joined NI after graduating from New Mexico Tech in 2000 with two bachelor's degrees - one in electrical engineering and another in computer science.

For more information  
contact:

Aaron Brundage

Email: [albrund@sandia.gov](mailto:albrund@sandia.gov)

Phone: 505 284-2958

### Event Details:

Date: Wed Apr 8<sup>th</sup>

Time: 6:00 PM

Location: The Cooperage Restaurant  
7220 Lomas N.E. Albuquerque, NM 87110

Cost: \$30 per person

Registration: Click [here](http://www.acteva.com/booking.cfm?bevaaid=180266) for online RSVP or  
<http://www.acteva.com/booking.cfm?bevaaid=180266>