

# Education in Machinery Health™ Management



## TAKING THE MYSTERY OUT OF PEAKVUE TECHNOLOGY AND AUTOCORRELATION AS AN ADVANCED DIAGNOSTIC TOOL

This 3-day training includes two courses for a total of 2.1 CEU's:

### TAKING THE MYSTERY OUT OF PEAKVUE™ TECHNOLOGY

This course makes use of both case studies and live demonstrations illustrating specific mounting procedures to reliably detect certain faults.

Prerequisites: familiar with vibration data collection, analysis and AMS Machinery Manager software.

#### TOPICS INCLUDE

- Proper PeakVue set-ups for all speeds (as low as 1 rpm)
- Sensor selection and sensor mounting
- Setting alarm levels
- Choosing trend parameters
- Analyzing PeakVue spectra and waveforms
- Uses of the circular waveform plot

### AUTOCORRELATION AS AN ADVANCED DIAGNOSTIC TOOL

This course will teach the power of the autocorrelation coefficient function for the analysis of vibration induced time waveform data.

#### TOPICS INCLUDE

- Introduce the autocorrelation coefficient
- Demonstrate the computation of the autocorrelation coefficient data from the time wave form data

- Highlight the strengths of the autocorrelation coefficient function data relative to spectra data
- Demonstrate the use of the autocorrelation coefficient data as a diagnostic tool to support the spectra data for vibration analysis through several case studies.
- Identify unique patterns of the autocorrelation function data for certain classes of bearing faults, gearing faults, etc.

#### LOCATIONS

- April 24-26, 2012

#### Able Technology & Field Service

425 Plumer Street  
Wausau, WI 54403

8:30 AM - 4:30 PM daily

- \$1,750 per person
- Continental breakfast and lunch will be provided
- Registration:  
Please visit [www.novaspect.com/education](http://www.novaspect.com/education) for online registration or contact Novaspect Education Services at 847-709-8940.