Around the Institute

News about the Vibration Institute, an organization for the dissemination of practical information on evaluating machinery behavior and condition

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CHAPTER CHATTER

Arizona IPdM

At the September meeting attendees discussed such topics as permanent sensor installation and networking, wireless networks for PdM, integration of sensors with building process controls, oil analysis and new lubricant problems. The October meeting featured discussions on certification, the 2008 Annual Meeting, future meetings and functions.

Baton Rouge

See Gulf Coast Chapter.

Central New York

Officers for 2007-2008 are: Chairman, John Bagby; Vice-Chairman, John Smith; Treasurer, Steve Toomey; and Secretary/Webmaster, Shaun McLarney. The topic for the September meeting was bearings, belt drives and power transmissions – best practices, design, and maintenance.

Chesapeake

Contact Joe Humphrey (310/669-8087) for information regarding upcoming events.

Chicago Area

At the September meeting Matt Singkofer, Emerson/CSI, focused his presentation on the importance of resonance detection on rotating equipment. The talk included understanding the symptoms of resonance, techniques for finding resonance, using a modal hammer, determining the cause of resonance, and suggestions for correcting issues associated with resonance. Several case histories were presented.

Cincinnati Tri-State

Contact Fred Hery (937/226-4053) for information regarding upcoming events.

Coastal Bend

George Zusman, PCB Group, spoke at the May meeting on a new generation of vibration field programmable sensors. He also discussed an effective approach for machinery protection and monitoring. Viscosity measurement as a maintenance tool for equipment operation status was the topic discussed by Joe Gaglino, Cambridge Viscosity, at the September meeting.

The 14th Rotating Equipment Reliability Seminar was held October 18. The meeting was divided into two sections. During the first half Ron Adams, Sulzer Pumps, discussed what makes a pump an API 610 pump; and during the second half Troy Broussard, Cascade Analytic, talked on sleeve bearing diagnostics.

Colorado

Baker Instrument hosted a free seminar in October on motor testing and basic electric motor insulation systems, describing their strengths and failure mechanisms. Discussions on tool and techniques utilized to diagnose power quality, rotor, loading condition and mechanical problems were presented.

Connecticut

Contact Al Bowers (203/597-8806) for information regarding upcoming events.

Delaware Valley

Contact Dave Butchy (215/698-0800) for information regarding upcoming events.

Eastern Michigan

Chapter officers for 2007-2008 are: Chairman, Israel Salinas; Vice Chairman, Jeff Olsen; Secretary, Mark Malanyn; and Treasurer, Thomas Drain. "Bring Your Boss Night" was held in October. The meeting topic was advances in vibration. Case histories were presented with special presentations by Bob Martin, Jim Kosnik, and Tom Drain. The November meeting featured Dave Corelli, PCB Piezotronics, speaking on vibration sensor calibration. The next meeting will be December 6. Bob Martin, Emerson Process Management, will give a presentation on PdM program recovery, restoration and evergreening.

Georgia

A business/planning meeting was held in July. The agenda included the selection of future meeting dates, locations, speakers, topics, and officers. The guest speaker was Jim Hall, Ultra-Sound Technologies. Mr. Hall discussed airborne ultrasonic applications. See the Piedmont Chapter for a review of the September meeting. The next meeting is a joint meeting with the Piedmont Chapter in Augusta, Georgia on February 15.

Gulf Coast

The annual Expo was held in October. There were 34 exhibitors and 60 attendees. The next meeting will be November 15 and will include election of officers.

Heart of Illinois

Contact Mike Thornton (309/579-3510) for information regarding upcoming events.

Houston

Bob Eisenman, GE Energy, gave an update on mechanical/electrical shaft runout at the September meeting. At the October meeting, Ronald B. Adams, Sulzer Pumps, discussed the engineering aspects of what makes a bad pump a really bad pump. He also presented case histories.

Hudson/Mohawk

The May meeting featured a tour of the Watervliet Arsenal. The presentation scheduled for the November meeting will focus on methods for assessing bearings for the railroad industry. Richard Smith, who has been a key developer of methods that assess bearing condition in passing trains using stationary track side equipment, will be the speaker. The next meeting will be January 8; the topic will be a case study of vibrating machines.

Vibration Analyst certification exams, Categories I, II and III, will be given at Foster-Miller in Albany on December 8. For further information contact Tom Walter (518/456-9919).

New Jersey Metro

Contact Joe Deery. (973/764-2716) for information regarding upcoming events.

New Orleans

See Gulf Coast Chapter.

Niagara Frontier

The September meeting featured Tom Treharne, Treharne Engineered Sales, hosting a panel of local "personalities" who traveled near and far – from Baghdad, Iraq to the jungles of Peru to China. They discussed topics from lawn rollers to 650 MW turbine generator sets, to micro motors for the medical industry and have seen many applications and "twisted" results. One half of the presentation was discussion and the other half was questions and answers. At the October meeting, Bill Ashton, PCB Piezotronics, discussed many similarities and several profound differences between predictive maintenance and aerospace prognostic health management on helicopters, turbine engines and rotating subsystems.

North Texas P/PM

Contact Frank Bartolic (972/372-2273) for information regarding upcoming events.

Northern California

Contact Sam Terry (925/372-0770) for information regarding upcoming events.

Northern New England

Contact Rick Smith (603/659-6868) for information regarding upcoming events.

Northern Ohio

The September meeting featured Steve Matovic, Horsburgh & Scott. Mr. Matovic discussed their geardrive products, including typical applications, unit descriptions and configuration. An explanation of gearbox vibration, major frequency spectrum components and typical causes was followed by a case history. A tour of the mining operation and plant of Cargill Deicing Systems was featured at the October meeting. The next meeting is November 8. Drew Mackley, Emerson Process Management/CSI, will discuss AMS machinery health management software.

Old Dominion

Contact Skip Hartman (540/967-3886) for information regarding upcoming events.

Pacific Northwest

Contact Martin Bradley (425/337-9365) for information regarding upcoming events.

Piedmont

The September meeting was a three chapter meeting – Tennessee River, Georgia and Piedmont chapters. There were 131 attendees from four states. Ron Eshleman, Vibration Institute, reviewed the origins and history of the Institute including slides and explanations of the key players and their contributions. He also presented several interesting case histories including one showing his Buick had a smoother ride than a Rolls Royce! Ralph Buscarello, Update International, discussed the most unusual places to find resonance, based on his vast field experience in helping customers solve some of the most maddening vibration problems. He demonstrated how he performed many initial evaluations using only a coin. The final speaker was Jim Berry, Technical Associates. Jim talked about the detection of induction motor electrical problems using vibration and motor current analysis. His examples demonstrated that accurate data is required to accurately diagnose motor health and that neither vibration readings nor current readings alone are sufficient.

The December 7 meeting will be held at the PCB/IMI Roanoke Rapids facility in Halifax, North Carolina. Dave Corelli, PCB, will discuss how to collect bad data with good accelerometers; Mark Goodman of UE Systems will discuss the methods of inspection to determine the presence of potential arc flash incidents; Lev Nelik, Pumping Machinery, will talk about applications and interpretations of vibration analysis to solve pump problems; and Stan Bognatz, M&B Engineered Solutions, will speak on transient vibration analysis, giving insights into machinery dynamics.

Saginaw Valley

An informal dinner meeting was held in October. The next meeting will be held in December.

Southern California

The topic for the May meeting was active balancing of a lift fan drive-shaft. Exhibitor tables were available. Two speakers gave presentations at the October meeting. Guil Cornejo explained how to use torsional signals from rotating machinery and Howard Malm discussed the use of vibration signals from reciprocating machinery. Dr. Malm's presentation included the history of reciprocating machinery, the sources of vibration, the importance of frequency and time domain measurement, and examples using vibration in on-line diagnosis and control applications. The next meeting will be November 28 at the Holiday Inn Express in Newport Beach. John Mitchell will discuss 70 years of continuous progress in vibration measurement.

Southern Indiana

Candice Guy spoke at the June meeting. She discussed data acquisition in the biological sciences: electrocommunication, structural analysis, and deadly strike mechanisms. Dan Rains, Voith Industrial Services, explained how to detect a motor problem at the August meeting. Vibration analysis and thermography were used to identify a problem with a motor that was experiencing high amperage use.

The 2007 Technical Conference was held in October with 37 people in attendance. Sessions included "What's Inside a Signal Analyzer," "Managing Electric Motors," and "Introduction to RCM." The keynote address was on NASA wind tunnel testing. Exhibits were displayed.

Announcing the

NATIONAL TECHNICAL TRAINING SYMPOSIUM (32nd ANNUAL MEETING)

Vibration Institute
A NOT-FOR-PROFIT CORPORATION

June 23-26, 2008
Woodlands Hotel and Suites
Williamsburg, Virginia

- basic analysis
- basic data acquisition
- prognosis
- signal processing
- bearing analysis
- machine diagnostics and case histories
- modal analysis
- rotor dynamics
- pump vibrations
- electric motor vibrations
- monitoring applications
- introduction to alignment
- risk assessment
- reliability centered maintenance
- wireless technology panel session
- PDMA
- two plane field balancing
- ultrasonics
- oil analysis

For information:

Phone: (630)654-2254
Fax: (630)654-2271
Email: vibinst@att.net

THE VIBRATION INSTITUTE
6262 South Kingery Highway, Suite 212
Willowbrook, Illinois 60527

Tennessee River

See Piedmont Chapter for September meeting review.

Triplex

Contact Roger Tucker (337/708-6367) for information regarding upcoming events.

Upper Midwest

Contact Jason Haugen (651/484-5533) for information regarding upcoming events.

West Michigan

Two tracks were presented at the October meeting. The first track included discussions on wireless vibration monitoring, variable frequency drives (bearing fluting), and case histories involving multiple technologies; the second track included a technology update, discussion of belt driven equipment and case histories involving multiple technologies. Vendor displays were also available.

Western Pennsylvania

Contact Bill Ciaramitaro (724/733-6706) for information regarding upcoming events.

Wisconsin

A September one-day course featured Louis Lanteigne. Schaeffler Group USA and Midwest representative for FAG Bearings. He discussed root cause failure analysis on bearings, including proper lubrication, proper fit of bearings, proper bearing selection, and proper bearing mounting techniques.

Vibration Institute
6262 S. Kingery Highway
Suite 212
Willowbrook, Illinois 60527
Telephone: 630/654-2254
Fax: 630/654-2271
Email: vibinst@att.net
Web Site: http://www.vibinst.org

AROUND THE INSTITUTE
Editor/Loretta G. Twohig
Production/Barbara K. Solt

62nd MEETING of the
SOCIETY FOR MACHINERY FAILURE PREVENTION TECHNOLOGY
(A Division of the Vibration Institute)

Sheraton Oceanfront Hotel, Virginia Beach, Virginia
May 6-8, 2008

THEME: Failure Prevention for System Availability

Sessions currently planned for:

Data/Knowledge Management, Electronics and Power Systems Health Management, Failure Analysis (Engineering Solutions for Failure Prevention), Failure Analysis (Tribology), Failure Prevention for Materials and Structures, Gear and Bearing PHM, Health Management Strategies, PHM Applications, PHM Techniques, Signal Analysis, Sensors and Distributed Systems Architecture

Tutorials currently planned on:

Failure Analysis for Reliability of Machinery Components, Workshop on 'Commissioning and Maintenance Turnover', Health Monitoring of Structural Components, Basics of Acceleration Measurements, An Introduction to PHM Design, Design of Prognostics and Predictive Maintenance Tools for Zero-Breakdown Systems

Check the MFPT Website for the Latest Information - http://www.mfpt.org

MFPT Society Headquarters
5100 Springfield Street, Suite 420, Dayton, OH 45431-1264
Telephone: (937) 256-2285; Fax: (937) 256-2603
chris@treble-one.com, rick@treble-one.com

SELF-STUDY PROGRAMS IN VIBRATION ANALYSIS
from
the Vibration Institute

Self-study with a Vibration Institute correspondence course has advantages:

- Organized study of vibration analysis techniques, case histories, and workshops
- Study at your personal pace
- Help with questions and explanations by telephone or e-mail
- Learning methods that work
- Benefit of exposure to experienced vibration analysts
- Credit for continuing education on re-certification

The following Correspondence Courses are available:

Introduction to Machinery Vibrations
Basic Machinery Vibrations
Machinery Vibration Analysis
Rotor Dynamics and Balancing

Contact the Institute at 630/654-2254 or http://www.vibinst.org