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A Culture of Reliability

Reliabilityweb.com's

► **PdM-2008 Predictive Maintenance
Technology Conference and Expo
The Qwest Center**

September 15-18, 2008 ▪ Omaha, NE
www.maintenanceconference.com

**IT'S NOT GETTING ANY EASIER:
TOUGH TIMES AHEAD
MEANS DOING MORE WITH LESS**

The opportunity to deliver more business
value through asset health management

Find out how some companies are using predictive maintenance
and condition monitoring to increase uptime and availability while decreasing costs



Keynote Speaker:

Heinz Bloch

Former Exxon Chemical
Regional Machinery Specialist,
International Author



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Collocated with Lubrication World, 2 Learning Events, 1 Location, 1 Price.



Get more details online at www.maintenanceconference.com or Call toll free (888) 575 1245 to register

Value. Delivered.

Predictive Maintenance and Machinery Condition Monitoring

PdM-2008 brings you up to speed on everything from the business case for predictive maintenance to the latest wireless condition monitoring system, vibration analysis hardware and software, ultrasonic data collectors, motor testers, oil analysis systems and labs, infrared cameras and other important condition monitoring technologies.

Beginning with 8 full day certificate workshops followed by 2 days of short courses, insightful keynotes, technology innovation and real world case studies, our goal is to provide you with a road map you can take away to create your next steps toward a successful maintenance and reliability program.

Learn To Move from Reactive Maintenance to Proactive Maintenance

If you are interested in moving from reactive or time based maintenance to proactive, predictive maintenance and condition monitoring, join us to get the complete picture:

- 8 Tracks and more than 50 learning zone sessions
- Asset health program benchmarking opportunity
- Uptime Magazine PdM Program of Year awards
- Keynote presentation from industry thought leader Heinz Bloch
- Peer networking—both at event and online using state of the art networking tools
- Pre-conference certificate workshops
- Post-conference bonus workshops
- Hands-on learning lab for all PdM Technologies
- Three day PdM roadmap curriculum, or design your own learning session path
- Team discounts to encourage group learning
- Biggest challenges interactive group discussion

Hot Topics:

- Mapping PdM technologies to failure modes
- Integrating PdM Technologies
- Predictive maintenance training and certification
- Creating a business case for predictive maintenance
- Selecting the right technologies to begin a PdM program
- Moving your PdM program to a reliability based program
- Getting management support
- Reporting results and saves
- Budgeting requests
- Infrared windows and viewports
- Root cause and failure analysis



You Will Be More than a Maintenance Survivor:

You Will Be a Champion!

PdM-2008 Predictive Maintenance Technology Conference offers a comprehensive look at some of today's more powerful predictive maintenance and condition monitoring hardware and software.

Whether you operate a single PdM technology or you manage an entire Predictive Maintenance program – you will leave PdM-2008 with a clear understanding of where the industry is today, where the trends are taking us and what your next steps should be to increase uptime and availability, while reducing cost in the turbulent times ahead.



Uptime PdM Program of the Year Winners

The Predictive Maintenance Technology Conference provides thorough, leading edge and unbiased coverage of Predictive Maintenance technologies and related trends for Maintenance Managers, Reliability Engineers, Maintenance Supervisors, Operations Managers, Plant Engineers, Facility Managers, Predictive Maintenance Technicians and Specialists. Progressive team discounts are available so bring your entire team for a total learning experience.

New! – Join the Predictive Maintenance Technology Conference Online Community!

The Association of Maintenance Professionals has created a special group area on its portal at www.maintenance.org for attendees of the Predictive Maintenance Technology Conference.

Meet winners of Uptime Magazine's PdM Program of the Year. Read blogs and forum posts by speakers and workshop leaders. Post your own comments and share your experiences and knowledge. Connect with peers who will also attend.

Simply create a free membership profile at the Association for Maintenance Professionals, (www.maintenance.org) and then click the Group menu selection to find the Predictive Maintenance Technology Conference Group.

Links to past Predictive Maintenance Technology Conference presentations and papers are available within the community. There is no cost to join the Association for Maintenance Professionals at www.maintenance.org.



Get more details online at www.maintenanceconference.com or Call toll free (888) 575 1245 to register

Create Your Own Learning Experience.

After your pre-conference workshop you can create your own 2 day learning experience by moving between Learning Zone sessions. Flexible selection of Learning Zone sessions allows you to create the agenda that suits your learning goals:

8 Learning Zone Tracks

PdM Best Practices	PdM Mechanical	PdM Electrical	Lubrication 1	Lubrication 2	Solution Innovations	Hands On Technology Learning Lab	Roadmap to PdM Excellence
PdM Best Practices Learning Zone		<p>"I attended PdM-2006 and was so impressed I brought my boss to PdM-2007. You do a great job on the program. Keep it up."</p> <p style="text-align: right;">Dennis Kristyalle Lower Colorado River Authority</p>			Mechanical PdM Learning Zone		
<ul style="list-style-type: none"> Gallatin Steel Company Predictive Maintenance Story Sustaining a Best Practices PdM Program at Duke Energy Catawba Nuclear Auditing a Predictive Maintenance Program Spindle Condition Monitoring at GM Saturn Staying Airborne: Precision Maintenance Program at Tinker Air Force Base PdM Program Management 					<ul style="list-style-type: none"> How Hamilton Sunstrand built an award winning Ultrasound Inspection Program Triax Accelerometer for Route Based Vibration Analysis Introduction to Vibration Analysis Shock Pulse Monitoring for Bearing Failure Analysis Air Liquide's PdM Optimization Challenge Art of Narrow Band Alarming by Brain Graney Diagnostic Aid Provided by Autocorrelation Remote Machine Condition Assessment 		
Electrical PdM Learning Zone		<p>"PdM-2007 and LubricationWorld had an excellent mix of topics and was a great place to network. We brought 8 people and got all kinds of new ideas and energy."</p> <p style="text-align: right;">Joe Dominick Reliant Energy</p>			Solutions & Innovations Zone		
<ul style="list-style-type: none"> Calpine's Motor Testing Program Increasing Safety and Reliability with Infrared Windows at Arnold AFB Infrared Inspections and NFPA70E by Martin Robinson Interpretation of Transformer Oil Test Results and Economic Solutions Partial Discharge Testing Using Ultrasound and Infrared Together 					<ul style="list-style-type: none"> Wireless Sensor Innovation Lubricant Sensor Innovation Oil Analysis Innovation Leak Detection Innovation Portable Vibration Innovation Lubrication Software Innovation Solutions for remote monitoring Solutions for Motor Testing Solutions for Bearing Analysis Solutions for Switchgear Solutions for Gearboxes Solutions for Transformers 		
LubricationWorld 1 and 2 Learning Zone							
<ul style="list-style-type: none"> Excellence in Lubrication and Oil Analysis at San Onofre Nuclear Generating Station (SONGS) Bearing Lubrication Fundamentals Acoustic Lubrication Monitoring How to Manage Lubrication Systems & Practical Examples of Lubricated Machine Failure at POSCO 		<p>"My supervisor has attended for the past few years and now I see why. The event features outstanding presentations and exhibits. I cannot think of anything you can improve."</p> <p style="text-align: right;">Glenn Wallis United Space Alliance</p>			<ul style="list-style-type: none"> Lubricant Storage and Handling Best Practices In-line Oil Condition Monitoring The 5 Rights of Lubrication Using Additives to Boost Reliability Lubrication Excellence at Virginia's Department of Transportation Filter Debris Analysis Risk Management After Market Additives 101 		

Road Map to PdM Excellence: A Comprehensive 3 day Experience at PdM-2008

We created the technical program at PdM-2008 and LubricationWorld knowing that many of you seek specific areas of knowledge and expertise to close the gaps in your existing maintenance programs.

This year we have also worked closely with Allied Reliability to create a 3 day workshop - with times synchronized to the conference program to allow you to attend keynotes, Expo and social networking. This course teaches you everything you need to build and sustain a predictive maintenance program at your plant or facility.

Road map to PdM Excellence Day 1 - Before you even start:

Building the foundation for a successful Predictive Maintenance Program is as important as the technologies you use and the skills of the people in the program. Taking time to create foundational elements will increase the chance of success and sustainability.

Topics include:

- Building a Business Case
- Getting Leadership Commitment
- Foundational Elements
- Elemental Timeline
- Commitment to Active Learning

Road map to PdM Excellence Day 2 - Getting Started (Designing the Program):

Day 2 will focus on building the program: determining levels of targeted coverage, lean out your PMs, selecting equipment, developing standards for personnel qualifications and detailed technology standards, building the databases, deploying work flows and KPIs.

Topics include:

- Conducting an assessment
- Getting an accurate asset list and criticality
- Develop process flows/RASIs, and Key Performance Indicators (KPIs)
- Build a 100% Coverage/Resource Model
- Evaluate Sourcing Options
- Refine your Business Case and Timeline

Road map to PdM Excellence Day 3 - pulling it all together (integration) and Asset Health Management followed by models of PdM Excellence. You will hear case studies from several companies who have created successful Predictive Maintenance programs and learn the obstacles they faces as well as how they overcame them.

Preconference Certificate Workshops March 15

Preconference certificate workshops provide up to 6 hours credit toward CPMM, CMRP and other maintenance certifications. Make plans to come early to attend preconference workshops:

Workshop 1: Predictive Maintenance Managers' Workshop by Jack Nicholas, Jr.

Workshop 2: Bearing fault detection: Three keys to great results by Jason Tranter

Workshop 3: Energy Savings through Airborne Ultrasound by Paul Klimuc and Jim Hall

Workshop 4: Leveraging the Visibility of your PdM Program at the Corporate Level by Carl Schultz

Workshop 5: OMA 101 - Oil Monitoring Analysis by Jack Poley and Michel Murphy

Workshop 6: Basic Failure Analysis Techniques by Neville Sachs

FREE Bonus Workshops March 18

Extend your learning experience with FREE Bonus Workshops March 18. All PdM-2008 and LubricationWorld attendees are invited to participate in The Association for Maintenance Professionals Breakthrough session or one of the other three Bonus certificate workshops (earn 6 hours toward CMRP and CPMM recertification). There is no additional cost to participate in these extended learning events. Space is limited so sign up early to get the workshop seat you want. See the PdM-2008 web site for bonus workshops agenda and details:

Workshop 1: The Association of Maintenance Professionals Breakthrough Session: Asset Health Management

Workshop 2: The Oil Analysis Game by Ray Thibault and Paul Goldman

Workshop 3: Lubrication Fundamentals by Insight Services

Workshop 4: The Reliability Game by MRG

You will have an opportunity to get hands-on experience with the latest vibration testing, ultrasound inspection, infrared camera, motor testing, oil analysis and other leading technologies in PdM-2008 Learning Labs. You can either schedule a specific time for your visit or simply stop in at your convenience.



Where is PdM-2008 being held?



The Qwest Center in downtown Omaha is the location of this year's Predictive Maintenance Technology Conference. Several official hotels have been designated and are offering PdM-2008 discounts. Visit www.maintenanceconference.com for hotel details.

Qwest Center
455 N 10th St Omaha, NE 68102
(402) 341 1500



PdM-2008 Expo

PdM-2008 and LubricationWorld Expo hours
Monday September 15 -- 4 pm - 6 pm
Tuesday September 16 -- 9 am - 4:00 pm
Wednesday September 17 -- 9:00 am - 1:15 pm

No other event does as much to help you make sense of the numerous purchasing options for predictive maintenance and lubrication solutions.

The PdM-2008 and the LubricationWorld Expo is the place to find solutions as you develop and build your own best practices. Please find a quality solution provider by using the alphabetical list below. Check the web site at www.maintenanceconference.com for the latest additions.

Exhibitors

- | | |
|---|---|
| <p>24/7
AIRT/Cantronics
All Test Pro
Allied Reliability
Areva
Association for Maintenance Professionals
Baker Instruments
Bently Tribology Services
Chevron
CMI/Kittiwake
Commtest
CTC
Datastick
Des-Case
DLI Engineering
Easy Laser
Electrophysics
Emerson Process
ExerTherm
FLIR
Hawk-IR
Hypro Filtration
iLearn Mobius
Infraspection Institute
Insight
IOtech</p> | <p>LDS
IRISS
IVC
Logos Computer Solutions
Lubrication Engineers
Ludeca
Maintenance Technology Systems
Mikron
MRG
MRO-Zone.com
MRT Laboratories
PCB/IMI Sensors
PdMA Lab Services
PdMA Motors
Process Sensors
Royal Purple
SD Myers
SDT
Shell Lubricants
SPM
Thermoteknix
Timken
Trico
UE Systems
Uptime Magazine
Vectron
Wilcoxon</p> |
|---|---|

*PdM-2008 Expo Sponsors in BOLD

My PdM-2008 Checklist

Get the most out of your Predictive Maintenance Technology Conference and Expo experience. Follow the checklist to be sure that you are prepared for opportunities before, during and after the learning event.

Before: _____

- Register early. You can ensure your seat in the workshops you want. The earlier you register – the more you save – so sign up today for the biggest savings. Team discounts also available.
- Check out the early bird savings, program details and register online www.maintenanceconference.com.
- Plan your workshop and learning zone agenda in advance.
- Plan to come early for exclusive pre-conference certificate workshops. Leading subject matter experts share knowledge and experience in full day workshops that count toward CPMM, CMRP and other re-certifications. These workshops are exclusive to PdM-2008 and are not available elsewhere.
- Plan to stay late for exclusive FREE bonus post-conference certificate workshops. The Association for Maintenance Professionals breakthrough session and 3 additional FREE bonus workshops are available for PdM-2008 attendees at no extra cost.
- Make your hotel and airline reservations. The earlier you secure a room, the closer it will be to the PdM-2008 Conference at the Qwest Center. Airlines offer the widest schedule choices and best deals for early booking as well.
- Review the exhibitor list at www.maintenanceconference.com to set up key meetings with vendors and solution providers you want to meet.
- Talk to colleagues about their machinery health issues. Better yet, have them join you. Check our early bird TEAM discounts. The earlier you register - the more free team registrations you get.
- Get connected with peers before the conference. Once you register, you'll receive information to join the online community at the Association for Maintenance Professionals web site, www.maintenance.org.

Learning Zone Focus Areas:

- PdM Program Management
- Lubrication Program Management
- Vibration Analysis
- Infrared Thermography
- Ultrasound/Motor Testing
- Oil Analysis
- Failure Analysis

PdM-2008 is held at the Qwest Center in downtown Omaha. Discount Rates at Official Hotels (before August 1):
Omaha Hilton Downtown
Fairfield Inn Downtown
Courtyard by Marriott
Hilton Garden Inn Downtown
More hotels and details online at www.maintenanceconference.com

During: _____

Reserve a meeting time with:

- Subject Matter Experts and Workshop Leaders
- Solution Providers/Exhibitors
- Set aside time to visit the PdM-2008 and LubricationWorld Expo. Meet with over 80 of the best Predictive Maintenance and Lubrication Solution Providers in the expo hall.
- Attend all general sessions and take notes. You will meet the Uptime Magazine PdM Award winners and find out what made their program stand out. You will hear what the biggest challenges are for your peers and have a chance to share your own knowledge and experience. You will hear a keynote session like no other that will change the way you think and the way you act toward maintenance.
- Attend all networking sessions and sit with new people at every meal. Reliabilityweb.com events are designed to provide as much learning at informal networking events as formal learning zone sessions.
- Attend the welcome reception, the Casino night and all other breaks and meal functions. You may meet someone who has just the solution or advice that may make a big difference for you.
- Turn off your mobile phone and Blackberry. Emails and voicemails can wait – there is networking gold to be had at PdM-2008.

After: _____

- Check out what you missed. With more than 50 sessions on the agenda – it is not possible for you to hear every presentation that interests you. View the papers and presentations you missed online at the Predictive Maintenance Technology Conference group area at the Association for Maintenance Professionals web site at www.maintenance.org.
- Debrief your team: Share what you learned with your colleagues while the lessons are still fresh in your mind.
- Follow up with new connections. You are sure to have expanded your professional network with peers you met at PdM-2008 and through the online community. The Association for Maintenance Professionals web site makes it easy to keep in touch so you can continue to share ideas, knowledge and experiences.
- Arrange follow up meetings with solution providers and exhibitors.



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Technology Conference and Expo**

Increase Uptime ■ Adapt to tough times
September 15-18, 2008 ■ Omaha Nebraska
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This one event covers:

- Vibration Analysis
- Infrared Thermal Imaging
- AC and DC Motor Testing
- Ultrasound Inspection
- Oil Analysis
- Lubrication Best Practices
- PdM Program Management

Call toll free (888) 575 1245 to speak with one of our conference specialists or register on-line at www.maintenanceconference.com

With jobs and budgets on the line, there is no better time to tap into new strategies and new technologies for increased asset reliability.

Reliabilityweb.com's Predictive Maintenance Technology Conference takes a business minded look at new ways perform maintenance and to assess the health of your machinery and systems in real time – so you can be better prepared to meet the reliability challenges of the future.

Progressive Early Bird Special

The earlier you register,
the more you save.
So Sign Up Today!



100% Money-Back Guarantee!

We are sure that PdM-2008 and LubricationWorld will be worth the time you invest in attending. If for any reason you are dissatisfied with your experience at this conference, we will refund 100% of your paid registration fee.



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Reliabilityweb.com
PO Box 60075 Fort Myers FL 33906

Now is the Best Time to Register: at www.maintenanceconference.com

