

Indianapolis, IN | SEPTEMBER 9-13, 2019

WELCOME TO THE WORLD'S CBM CONFERENCE

POWERED BY MOBIUS INSTITUTE

Vibration Analysis



Thermography



Oil Analysis & Wear Particle



Motor Testing



Ultrasound



Lubrication



Alignment & Balancing



CM Management



From workshops, learning sessions and case studies to the latest technologies featured in the expo, the conference provides practical learning in the important aspects of industrial vibration analysis, the complementary condition monitoring technologies, and reliability improvement.

WHY

- + Dedicated to all the Condition Monitoring Technologies
- + Improve diagnostic knowledge and skills
- + Build relationships with peers who face the same challenges

WHO

- + Condition Monitoring Professionals
- + Vibration Analysts
- + Program Managers
- + Reliability & Maintenance Professionals

WHAT ATTENDEES GET

- + 2 to 5-day pass with optional ARP certification exam on Wednesday
- + Keynote presentations by leading industry experts
- + Daily refreshments, snacks, lunch, networking receptions and dinner
- + CMRP, CMRT, ICML, ARP, Mobius Institute certifications and continuing education units
- + Hands-on presentations & case studies using purpose built test rig
- + See the latest CM Products and services showcased in exhibition hall

**ALL
NEW**

LEARNING STREAMS:

Vibration, Oil Analysis, Lubrication, Focused Knowledge, Ultrasound, Condition Monitoring, Infrared, Motor Testing, and Reliability

AGENDA



| DAY 1 | | MONDAY, SEPTEMBER 9 |
|-------------|---|---------------------|
| 9:00 - 5:00 | PW1: Asset Reliability Practitioner [ARP] Category I Three-Day Workshop - Jason Tranter | |

| DAY 2 | | TUESDAY, SEPTEMBER 10 |
|--------------|--|-----------------------|
| 9:00 - 5:00 | PW1: Asset Reliability Practitioner [ARP] Category I Three-Day Workshop - Jason Tranter | |
| 9:00 - 5:00 | PW2: Vibration in Action Workshop: A Practical Introduction of the Use and Value of Vibration Analysis with Elvis the Test-rig - Dennis Swanepoel | |
| 12:30 - 1:30 | Lunch in Foyer | |

| DAY 3 | | WEDNESDAY, SEPTEMBER 11 | | |
|--------------|---|---|--|--|
| 8:00 - 9:00 | Welcome Coffee and Tea in Foyer | | | |
| 9:00 - 12:00 | WS1: Practical Vibration Analysis Workshop: Interactive and Challenging Case Studies (Full Day) - Dennis Swanepoel | Hands-On Workshop: Lubrication 101: A History of Bad Practices and How to Fix It - Paul Dufresne | Hands-On Workshop: Ultrasound in Action: See How to Solve a Multitude of Problems with One Tool - Paul Klimuc | PW1: Asset Reliability Practitioner [ARP] Category I Three-Day Workshop - Jason Tranter |
| 12:05 | THEATER PRESENTATIONS | | | |
| 12:00 - 1:00 | Lunch in Foyer | | | |
| 1:00 - 4:00 | WS1: Practical Vibration Analysis Workshop: Interactive and Challenging Case Studies (Full Day) - Dennis Swanepoel | Hands-On Workshop: Oil Analysis Data Interpretation - Evan Zabawski | Hands-On Workshop: Connecting the CBM program dots - Frederic Baudart | PW1: Asset Reliability Practitioner [ARP] Category I Three-Day Workshop - Jason Tranter |
| 4:00 | Welcome Reception with Complimentary Food and Drinks in Exhibition Hall | | | |
| 4:30 | Mobius Institute Accredited ISO Vibration Analyst Certification Exams, ICML, and CMRP and CMRT exams | | | |



CERTIFICATIONS OFFERED AT CBM CONFERENCE



LEARN MORE

DAY 4

THURSDAY, SEPTEMBER 12

| | | | | |
|----------------------|---|---|---|---|
| 7:00 - 8:00 | Continental Breakfast in Foyer | | | |
| 8:00 - 8:30 | Welcome and Exhibitor Introductions by Jason Tranter, Founder and CEO, Mobius Institute | | | |
| 8:30 - 9:15 | Keynote Presentation: Strategies for Gaining Sr. Leadership Support for Your Reliability Program - <i>Zack Fallowfield, Senior Director, Roche Diabetes Care, Inc.</i> | | | |
| | VIBRATION STREAM : | VIBRATION STREAM : | LUBRICATION STREAM : | WORKSHOP : |
| 9:30 - 10:15 | 1S1: Case Study: Beyond Traditional Condition Monitoring – How HD Vibration Data Can Be Used for Your Process - <i>Tim Sundstrom</i> | 2S1: Case Study: Interactive Vibration Analysis Diagnostic Challenge - <i>Dean Whittle</i> | 3S1: Case Study: Contamination control - <i>Paul Llewellyn</i> | Spindle Workshop - <i>Tom Hoenig, GTI Predictive, Harold Goellner, President of Advanced Machine and Engineering & David Stancil, Maintenance Reliability of BorgWarner PowerDrive Systems</i> |
| 10:15 - 10:45 | Morning Refreshment and Snack Break in Exhibition Hall | | | |
| 10:45 - 11:30 | 1S2a: Case Study: (90 min) Motion Amplification: Real-world case studies from the field - <i>Jeff Hay and Tony Barlow</i> | 2S2: Great Safety is Great Business - <i>Mel Terk</i> | 3S2: How not to kill your bearings, Condition Based Lubrication - <i>Paul Klimuc</i> | Spindle Workshop - <i>Tom Hoenig, GTI Predictive, Harold Goellner, President of Advanced Machine and Engineering & David Stancil, Maintenance Reliability of BorgWarner PowerDrive Systems</i> |
| 11:45 - 12:30 | 1S2b: Case Study: (90 min cont'd) Motion Amplification: Real-world case studies from the field - <i>Jeff Hay and Tony Barlow</i> | 2S3: Condition Based Strategies for Electrical Asset Reliability - <i>Mel Terk</i> | 3S3: Smart Lubrication: How Industry 4.0 is Revolutionizing Oil Analysis and Lubrication Management - <i>Mark Barnes</i> | |
| 12:30 | THEATER PRESENTATIONS | | | |
| 12:30 - 1:45 | Lunch and Dessert in Exhibition Hall and Theater Presentations | | | |
| | VIBRATION STREAM : | ULTRASOUND STREAM : | CONDITION MONITORING STREAM : | WORKSHOP : |
| 1:45 - 2:30 | 1S3: Case Study: The Challenges of Successful Monitoring of Machines with Complex Operating Procedures - <i>Christer Larsson</i> | 2S4: Case Study: (20 min.) Accurate Validation of Critical Alarms - Testing Switches & Seismoprobes via shaker table - <i>Marco Pres and Stu Alqaissia</i> | 3S4: Case Study: Do your Walk-around Equipment Inspections Really Contribute to Asset Reliability? - <i>Forrest Pardue</i> | Application of Electrical and Current Signature Analysis in Industrial/Commercial Sites - <i>Howard W Penrose, Ph.D., CMRP, Motor Doc</i> |
| 2:30 - 3:00 | Afternoon Refreshment and Snack Break in Exhibition Hall | | | |
| 3:00 - 3:45 | 1S4: Case Study: Don't Let the Unseen Bite You - Ultrasonic Electrical Inspections - <i>T.J. Garten</i> | 2S5: Case Study: Infrared and Ultrasound a Match Made for Reliability and Safety - <i>Roy Huff</i> | 3S5a: (90 min.) Leading reliability skill set improvements: illusion vs. sustainability - <i>Ian McKinnon</i> | Application of Electrical and Current Signature Analysis in Industrial/Commercial Sites - <i>Howard W Penrose, Ph.D., CMRP, Motor Doc</i> |
| 4:00 - 4:45 | 1S5: Case Study: Waveform Analysis at a Power Utility - <i>Roeloff Hoffmann</i> | 2S6: Slow speed bearing monitoring using ultrasound - <i>Adrian Messer</i> | 3S6: (90 min. cont'd.) Leading reliability skill set improvements: illusion vs. sustainability - <i>Ian McKinnon</i> | |
| 4:45 - 6:00 | Networking Reception with Complimentary Hors d'oeuvres and Drinks in Exhibition Hall | | | |
| 6:00 | Dinner and Live Music with Complimentary Food and Drinks | | | |

DAY 5

FRIDAY, SEPTEMBER 13

| | | | | |
|---------------|---|--|---|--|
| 7:00 - 8:00 | Continental Breakfast in Foyer | | | |
| 8:00 - 9:30 | Welcome and Exhibitor Introductions by Jason Tranter, Founder and CEO, Mobius Institute | | | |
| 8:30 - 9:30 | Keynote Presentation: Strategies for Gaining Sr. Leadership Support for Your Reliability Program - <i>Zack Fallowfield, Senior Director, Roche Diabetes Care, Inc.</i> | | | |
| 9:30 - 10:00 | Morning Refreshment and Snack Break in Exhibition Hall | | | |
| | VIBRATION STREAM: | VIBRATION STREAM: | CONDITION MONITORING HANDS-ON STREAM: | STREAM: |
| 10:00 - 10:45 | 1S6: Vibration based Condition Monitoring - Risk and Critical Factor Assessment Best Practices - <i>Ron Kittle</i> | 2S7: Case Study: Energy savings simplified with game changing technology - <i>Frederic Baudart</i> | 3S7: Hands-On: Mastering Single-plane Balancing - <i>Jason Tranter</i> | Fusing Multiple Sensor Technologies for Advanced Diagnostics - <i>Saar Yoskovitz, Augury</i> |
| 11:00 - 11:45 | 1S7: Case Study: Variable Loading Effect on Vibration - <i>Han-Chian Gee</i> | 2S8: Case Study Sustainable CBM with Thermography - <i>Michael Watson</i> | 3S8: Hands-On: Understanding Resonance - <i>Jason Tranter</i> | Case Study SRR/PdM Methodology of Proper Testing Requirements for DOE Critical Process Equipment at Savannah River Site - <i>Danny Newton</i> |
| 11:45 | THEATER PRESENTATIONS | | | |
| 11:45 - 1:00 | Lunch and Dessert in Exhibition Hall and Theater Presentations | | | |
| | VIBRATION STREAM: | ALIGNMENT & BALANCING STREAM: | CONDITION MONITORING HANDS-ON STREAM: | MOTOR TESTING STREAM: |
| 1:00 - 1:45 | 1S8: Vibration Analysis on Variable Speed Machines - <i>Stephen Bailey</i> | 2S9: Case Study: Gas Turbine Alignment in Less Than an Hour - <i>Dries Van Loon</i> | 3S9: Hands-on: Detecting and Correcting Resonance - <i>Jason Tranter</i> | 4S9: Energy impact of electric machinery and driven equipment measured through electrical signature analysis for program sustainability - <i>Howard Penrose</i> |
| 2:00 - 2:45 | 1S9: Can ODS Data Be Used to Diagnose Unbalance in Rotating Machinery? - <i>Mark Richardson</i> | 2S10: Alignment and Thermal Growth - <i>Michael Halstead</i> | 3S10: Estimating the Remaining Life of a Rolling Element Bearing with Vibration, Ultrasound, Oil, and Infrared Analysis - <i>Jason Tranter</i> | 4S10: Gaps... In your electric motor reliability program - <i>Noah Bethel</i> |
| 2:45 - 3:00 | Afternoon Refreshment & Snack Break | | | |
| 3:00 - 3:45 | 1S10: Maintenance and Reliability Metrics - <i>Paul Dufresne</i> | 2S11: Case Study: Understanding the Complexities of All That is Referred to as "Soft Foot" - <i>Greg Buscarello</i> | 3S11: One Step to Solve All Vibration Issues - <i>Dennis Swanepoel</i> | 4S11: Detecting Partial Discharge in High Voltage Motors and Generators - <i>Sean McCall</i> |
| 3:45 | Interactive Forum / Closing / Giveaways | | | |

EXPO TIMES

WEDNESDAY, SEPTEMBER 11
4:00 - 6:00

THURSDAY, SEPTEMBER 12
10:15 - 6:00

FRIDAY, SEPTEMBER 13
9:30 - 1:00

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Indianapolis, IN | SEPTEMBER 9-13, 2019

REGISTRATION INFORMATION



CBM
CONFERENCE™
USA 2019

Indianapolis, IN

CBM Conference special hotel rate: \$159 + tax per night

INDIVIDUAL ADMISSION

TEAM ADMISSION

DON'T MISS THE ARP OR HANDS-ON VIBRATION ANALYSIS WORKSHOP ON MONDAY

5-DAY

Includes Monday-Wednesday ARP CAT I Course
September 9-13

4-DAY

Includes Tuesday Hands-On Vibration Analysis Workshop
September 10-13

3-DAY PASS

September 11-13

TEAM 5-DAY FOR 3+ PEOPLE

Includes Monday-Wednesday ARP CAT I Course
September 9-13



TEAM 4-DAY FOR 3+ PEOPLE

Includes Tuesday Hands-On Vibration Analysis Workshop
September 10-13

TEAM 3-DAY FOR 3+ PEOPLE

September 11-13

BOOK EARLY AND SAVE - BUY ONE PASS GET ONE FREE

| BY JUNE 19 | BY AUGUST 21 | STANDARD | BY JUNE 19 | BY AUGUST 21 | STANDARD |
|------------|--------------|----------|------------|--------------|----------|
| \$1099 | \$1199 | \$1299 | \$949 | \$1049 | \$1149 |
| \$899 | \$999 | \$1099 | \$749 | \$849 | \$949 |
| \$699 | \$799 | \$899 | \$549 | \$649 | \$849 |



*For current rates & discounts check website thebcmconference.com

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