

**I M V A C**  
 INTERNATIONAL  
 MACHINE VIBRATION ANALYSIS  
 CONFERENCE  
**AUSTRALIA 2017**



**Tuesday, 05/09/2017**

6:00 am - 4:30 pm	Registration		
7:00 am - 8:00 am	Welcome Coffee and Tea		
8:00 am - 9:15 am	Welcome and Keynote Address		
8:45 am - 9:30 am	KN1: The Continuous Pursuit of Asset Reliability Malcolm Osenton, Director - Reliability, The Mosaic Company		
9:30 am - 12:30 pm	WS1: Practical vibration analysis workshop: Interactive and challenging case studies (Part 1 - Part 2 required below) by Scott Dow Scott Dow, Senior Instructor, Mobius Institute	AMWS2: Time signal analysis of ultrasound signals workshop by Tom Murphy Tom Murphy, Corporate Training Manager, SDT Ultrasound Solutions	AMWS3: Rolling bearing applications, failure analysis & reliability improvement - missing links by Darren Kenworthy Darren Kenworthy, Engineering Manager, SKF Australia Pty Ltd
12:30 pm - 1:30 pm	Lunch		
1:30 pm - 4:30 pm	WS1: Practical vibration analysis workshop: Interactive and challenging case studies (Part 2 - Part 1 required above) by Scott Dow Scott Dow, Senior Instructor, Mobius Institute	PMWS2: An animated introduction to fluid-film bearing vibration analysis workshop by Jason Tranter Jason Tranter, Managing Director, Mobius Institute	PMWS3: Improving electrical reliability by implementing a motor diagnostic and testing program by William Kruger William Kruger, Technical & Training Manager, ALL-TEST Pro, LLC
4:30 pm - 6:00 pm	Welcome Reception in Exhibition Hall		

## Wednesday, 06/09/2017

6:00 am - 4:30 pm	Registration		
7:00 am - 8:00 am	Morning Coffee and Tea		
8:00 am - 9:15 am	Welcome and Keynote Address		
8:30 am - 9:15 am	Keynote Presentation by David Parkin David Parkin, Champion AFL Coach and Business Leader		
9:30 am - 10:15 am	1S1: A visual introduction to modal analysis Jason Tranter, Managing Director, Mobius Institute	2S1: Used oil analysis as both a condition monitoring & productivity improvement tool Brenden Tymensen, Sr. Sales Advisor, ExxonMobil	3S1: Bearing failures and remedies Andreas Pieper, Engineering & Quality Manager, Schaeffler Australia
10:15 am - 10:45 am	Morning Coffee and Tea Break in Exhibition Hall		
10:45 am - 11:30 am	1S2: Case Study: Modal balancing and over speed testing of large turbo-alternator rotors. Simon Hurricks, Predictive Maintenance Engineer, Genesis Energy Ltd	2S2: A Most Unusual Hydro Generation Problem - 93m below water Matthew Fallow, Founder, Asset Quality	3S2: High definition gearbox monitoring Tim Sundstrom, Manager of Strategic Sales & Application, SPM Instrument AB
11:45 am - 12:30 pm	1S3: Continuous Monitoring Solution over the Internet for Heavy Earth Moving Equipment David Dick, Condition Monitoring Technician, Rio Tinto Paulo Cipriano, Global CBM Services CoE Cluster Manager, SKF Australia Pty Ltd	2S3: Case Study: The integration of ultrasonic acoustic and vibration techniques to enhance our rotating equipment CM program David Kauppila, Regional Reliability Manager, Wilmar Sugar, Herbert River Mills	3S3: Using Root Cause Analysis to Solve Equipment Problems Peter Todd, Reliability Engineer, ARIA
12:30 pm - 1:30 pm	Lunch in Exhibition Hall		
1:30 pm - 2:15 pm	1S4: Case Study: Gearbox failure Wendy Kera, Principal Defect Elimination - Condition Monitoring, BHP Billiton	2S4: Smart Reliability CBM & Fourth Industrial Revolution Sven Fleischer, Area Sales Manager, PRUFTECHNIK S.E.A. PTE LTD	3S4a: (90 min.) A quick introduction to the other condition monitoring technologies Jason Tranter, Managing Director, Mobius Institute
2:30 pm - 3:15 pm	1S5: Do we really have to take averages or are we just wasting our time?	2S5: Case Study: Connecting Asset Health to Asset Strategies in real time	3S4b: (90 min.) cont'd. A quick introduction to the other condition monitoring technologies

Clyde Volpe, Owner, Vibration Institute of Australia	Graham Forrester, Managing Director, NVMS Solutions	Jason Tranter, Managing Director, Mobius Institute
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Afternoon Coffee and Tea Break in Exhibition Hall

3:15 pm - 3:45 pm

3:45 pm - 4:30 pm

1S6: Evolution of Condition Monitoring Program  
Malcolm Osenton, Director - Reliability, The Mosaic Company

2S6: Oil condition monitoring and varnish mitigation for steam/gas turbines and compressors  
Pierre Vanderkelen, VP Intl Sales, Fluitec  
Wayne Buckland, Owner, CTG Lubrication Services

3S5: Case Study: Low Speed Bearing Lubrication, Monitoring & Reliability  
Peter Todd, Reliability Engineer, ARIA

4:30 pm - 5:30 pm

Reception in Exhibition Hall

6:00 pm - 8:30 pm

Evening Dinner & Entertainment

### Thursday, 07/09/2017

6:00 am - 3:00 pm

Registration

7:00 am - 8:00 am

Morning Coffee and Tea

8:00 am - 8:45 am

KN3: Making Vibration Analysis Count  
Jason Tranter, Managing Director, Mobius Institute

9:00 am - 9:45 am

1S7a: (90 min.) Rolling element bearings - Why the harmonics, why the side bands  
Clyde Volpe, Owner, Vibration Institute of Australia

2S7: CM Program KPIs- Key to survival and growth of CM programs  
Tarun Motwani, Sr. Engineer- CM & Lubrication, Visy Paper

3S6: Accurate condition monitoring of ultra-low and low speed machines  
Tim Sundstrom, Manager of Strategic Sales & Application, SPM Instrument AB

10:00 am - 10:45 am

1S7b: (90 min.) Rolling element bearings - Why the harmonics, why the side bands  
Clyde Volpe, Owner, Vibration Institute of Australia

2S8: Acoustic vibration monitoring  
Tom Murphy, Corporate Training Manager, SDT Ultrasound Solutions

3S7: Online Condition Monitoring utilising Acoustic Emission on a very slow speed application  
Mark Ciechanowicz, Industrial Services Manager, Schaeffler Australia Pty Ltd

10:45 am - 11:15 am

Refreshment and Snack Break in Exhibition Hall

11:15 am - 12:00 pm

1S8: Motion Amplification - Moving vibration analysis to the visual spectrum  
Andrew Gale, Technical Director,

2S9: Using Ultrasound for Super Slow Speed Applications  
Ian Ware, Managing Director, Ultra-Tek

3S8: Understanding Machinery Malfunctions for Automated Detection, Trending and Alarming  
John Morey, Engineer, Tensor

Optical Motion Technologies

Systems Pty Ltd

12:00 pm - 1:00 pm

Lunch in Exhibition Hall

1:00 pm - 1:45 pm

1S9: Nefarious methods of reducing vibration caused by resonance in large turbo machinery.  
Simon Hurricks, Predictive Maintenance Engineer, Genesis Energy Ltd

2S10: Case Study: Maximising Cost Effectiveness of Machine Condition Monitoring Frequencies  
Peter Todd, Reliability Engineer, ARIA

3S9a: (90 min.) Case Study: Vibration in the real world – examples from the field  
John van Bynen, Director, Commotion Systems Pty Ltd

2:00 pm - 2:45 pm

1S10: VFDs: The vibration analysts's worst nightmare  
Scott Dow, Senior Instructor, Mobius Institute

2S11: Inner Race Bearing Faults  
Glenn Withington, Condition Monitoring Technician, Rio Tinto

3S9b: (90 min.) cont'd. Case Study: Vibration in the real world – examples from the field  
John van Bynen, Director, Commotion Systems Pty Ltd

2:45 pm - 3:00 pm

Afternoon Coffee and Tea in Foyer

3:00 pm - 3:45 pm

1S11: Isolators – How on earth does putting springs under a machine reduce vibration?  
Jason Tranter, Managing Director, Mobius Institute

2S12: Implementation of Condition Monitoring in Well Head Compressor Operation  
Puji Nugroho, Mechanical Engineer, VICO Indonesia

3S10: Case Study Challenge: Test your analysis skills in a case study presentation that asks you, the audience, to decide what to do next  
Scott Dow, Senior Instructor, Mobius Institute

3:45 pm - 5:00 pm

Interactive Forum / Closing / Giveaways

**08/09/2017**

8:00 am - 12:30 pm

Certification Day - CAT I, II, III Certification Exam