

Agenda: 2024 Condition Based Maintenance User Group Meeting

**Minneapolis
July 8 –11, 2024**

Sunday, July 7th

4:00 PM- 6:00 PM	Pre-Registration - Evening at Hotel
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Monday, July 8th

7:00 - 12:00	Registration -										
7:00 - 8:00	Breakfast -										
8:00 - 8:30 8:30 - 10:00	<p>Combined CBMUG and ERIG Session Opening <i>Welcome Comments Kickoff, Introductions & Safety Message - Ed Hudson, David King, Charlie Chapman</i></p> <p>EPRI Antitrust Guidelines - Ed Hudson CBMUG and ERIG Keynote Speaker - Scott Sharp - Xcel Energy</p>										
10:00 - 10:30	Morning Break -										
10:30 - 12:00	<p>Around the Room - Introductions Update to group on presentation given to NPC on CBM resources reductions. Add slide on poll results from last year. - Dave King Combined CBMUG and ERIG - Open Panel Discussion Discussion on state of the industry and Equipment Reliability</p>										
12:00 - 1:00	Lunch -										
1:00 - 1:30	<p style="text-align: center;">Track 1: Condition Based Maintenance User Group (CBMUG) - EPRI Updates:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 5px 0;"> <tr> <td style="text-align: center; padding: 5px;">Torsional Vibration Project</td> <td style="text-align: center; padding: 5px;">MLAVA Project</td> </tr> <tr> <td style="text-align: center; padding: 5px;">CBM Stories</td> <td style="text-align: center; padding: 5px;">Main Reactor Pump Monitoring Guide</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Lube App</td> <td style="text-align: center; padding: 5px;">New Lube Notes - Overview with more info in Lube session</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Wiki Updates</td> <td style="text-align: center; padding: 5px;">Optical Laser Displacement Sensor</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Assessment Updates</td> <td style="text-align: center; padding: 5px;">3D Scanning - call for participants</td> </tr> </table>	Torsional Vibration Project	MLAVA Project	CBM Stories	Main Reactor Pump Monitoring Guide	Lube App	New Lube Notes - Overview with more info in Lube session	Wiki Updates	Optical Laser Displacement Sensor	Assessment Updates	3D Scanning - call for participants
Torsional Vibration Project	MLAVA Project										
CBM Stories	Main Reactor Pump Monitoring Guide										
Lube App	New Lube Notes - Overview with more info in Lube session										
Wiki Updates	Optical Laser Displacement Sensor										
Assessment Updates	3D Scanning - call for participants										
1:30 - 2:30	Machine Alignment Workshop - Eric Fritz - Adam Lunt I&E Technologies										
2:30 - 3:00	Afternoon Break -										
3:00 - 5:00	<p style="text-align: center;">Machine Alignment Workshop continued - Eric Fritz - Adam Lunt</p> <p>Will go over</p> <ul style="list-style-type: none"> -Types of misalignment -What causes misalignment -How misalignment affects reliability/vibration -How to detect misalignment -How to remedy <p>After lunch hands on:</p> <ul style="list-style-type: none"> -How to use alignment system to find and correct soft foot -How to measure and record thermal growth and dynamic movement -How to measure and fix misalignment 										
5:00	Adjourn										

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Tuesday, July 9th

CBMUG - Combined Session	
7:00 - 8:00	Breakfast
8:00 - 8:15	Track 1: Kick-Off and Safety Message - CBMUG Chair
8:15 - 9:15 9:15 - 10:00	RDI - Motion Capture Camera Info and Update - Erika Collins Equipment Anomaly Detection - Austin Crook - Curtis Wright
10:00 - 10:30	Morning Break
10:30 - 11:15	Building a CBM Subject Matter Expert, a personal history - Ed Hudson
11:15 - 11:55 11:55 - Noon	A new CBM Tech - learnings the first year - Maya Hooks Call for nominations - Vice Chair
12:00 - 1:00	Lunch/Vendor Expo -

Tuesday 9 th - Afternoon - Vibration Technology Forum (VTF)	
CBMUG Vibration Technology Forum	
1:00 - 1:30	Opening Remarks, Antitrust Guidelines, Around the Room - VTF Chair
1:30 - 2:00	Workshop: Presentation 1: Troubleshooting Kickoff Presentation – EPRI - Matt Hinman
2:00 - 3:00	Presentation 2: Initial Vibration Assessment - George D’Entremont
3:00 - 3:30	Afternoon Break/Vendor Expo -
3:30 - 4:00	Presentation 3: Troubleshooting - Step Changes - Sam Bertram
3:30 - 4:45	Workshop Roundtable: – Troubleshooting Meredith Neal George D’Entremont Jim Owens
4:45 - 5:00	Wrap-up - EPRI - Matt Hinman
5:00	Adjourn
5:30 - 7:00	Vendor Expo and Reception

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Wednesday July 10th

7:00 - 8:00	Breakfast/Vendor Expo -				
	<i>IRAF Breakout</i>		<i>VTF No Morning Session</i>		<i>Lubrication Forum Breakout</i>
8:00-8:15	Opening Remarks, IRAF Chair 1: Mechanical Applications of Thermography - Matt Blanchard 2: Hydrogen Leaks: a Discussion - Frank Rihl, Steven Frank, Robert Winters, Sam Gil			8:00-8:15	Opening Remarks, Lube Chair 1: Lubrication Presentation - TBD - Sam Gill -Nawah 2: Presentation 2
8:15-8:45				8:15-9:00	
8:45-9:45				9:00-10:00	
10:00-10:30	Morning Break/Vendor Expo -				
10:30-12:00	3: IR Windows, Cameras - Workshop - Tim Rohrer - Exiscan			10:30-11:15	3: Danger of incomplete info - Ricky Moore or Meredith Neal - TVA 4: Compatibility Studies with Mobilgard 410 - Mark Lanisus and LE Lubricants
				11:15-12:00	
12:00-1:00	Lunch/Vendor Expo				
	IRAF No Afternoon Session		VTF Breakout		Lubrication Breakout (continued)
		1:00 -1:15	Opening Remarks VTF Chair 4: Turbine Vibration - Mark Tarbet 5: How to Detect and Identify Rubs and Looseness - Steve Ciesla	1:00 -1:45	Trico - Sensei and Machine Vitals - Mike Gauthier Rich Wurzbach - New instruments for oil and grease analysis ExxonMobil Update J.Hannon, ExxonMobil
		1:15 - 2:15		1:45-2:15	
		2:15 - 3:00		2:15-3:00	
3:00 - 3:30	Afternoon Break/Vendor Expo -				
		3:30-4:15	Piping Vibration Damping Mods - Jacob Loving EPRI/STRESS Update on Torsional project - George Szasz	3:30-4:15 4:15-5:00	Chevron Updates Survey the Room - what EHC Fluid are you using? Meeting Wrap-Up Votes for Vice-Chair
		4:15-5:00			
5:00	Adjourn				
6:30 - 8:30	Executive Committee Dinner				

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Thursday July 11th

7:00 - 8:00	Breakfast/Vendor Expo -				
	<i>IRAF Breakout</i>		<i>VTF Breakout</i>		<i>Lube</i>
8:00-8:15	Opening Remarks IRAF Chair	8:00-8:15	Opening Remarks, VTF Chair	8:00-8:45	
8:15-9:00	5: Finding Leaks with Ultrasonics in Containment - Frank Rihl	8:15-9:00	6: Cooling Tower Fan Upgrades - Jim Owens		
9:00-9:30	6: Case Histories - Snell Group, Roy Huff	9:00-9:45	7: Turbine Gap Voltage Increasing - Don Rhoda, Mandy Dunning.		
9:30-10:00	7: Power Intelligence - Robin Thompson	9:45-10:00	Discussion and Nominations for Vice-Chair		
10:00-10:30	Morning Break / Vendor Expo				
10:30-11:30	8: NFPA 70B Updates & Electrical Fault Detection Utilizing Airborne Ultrasound Adrian Messer - SDT Meeting Wrap-Up Votes for Vice Chair	10:30-11:00	8: VVA - EPRI Resources - Frank Rihl		
		11:00-11:30	9: Cooling Tower Pump Vibration - Don Stewart		
11:30-12:00		11:30-12:00	Meeting Wrap-up Votes for Vice Chair		
12:00-1:00	Lunch/Vendor Expo				
Main CBMUG Combined CBMUG and ERIG					
1:00-2:00	Doble Presentation - Dr. Tony McGrail				
2:00 - 2:30	Afternoon Break/Vendor Expo				
2:30-3:00	Breakout Reports from Forum Chairs and EPRI Leads Meeting Wrap-up (Pros/Cons) Vote for Vice-Chair Open Floor - Comments Discussion of next meeting location				
4:15 - 5:00					
5:00	Adjourn				