The Fourth Vibration Institute Middle East Training Conference
November 11-13, 2024

	Sunday November 10th, 2024	
13:00 – 16:00	Pre-Conference Short Course (Online)	
	"Static-Couple and Thermal Compromise Balancing Course"	
	Kevin R. Guy, Delaware Analysis Services, Inc, USA.	
	Monday November 11th, 2024	
08:30 – 08:45	Opening Remarks	
	RITEC	
	Vibration Institute	
8:45 – 10:15	Session: Keynote Session 1	
	"Impact of Piping Vibration on Rotating Equipment"	
	Muhsen Al-Sanaa, Saudi Aramco	
10:15 – 11:00	Coffee Break (Exhibit Hall)	
11:00 – 12:30	Plenary Speaker 1	
	"Demystifying Oil Whirl and Oil Whip in Rotordynamics"	
	Prof. Aly El-Shafei, RITEC	
12:30 – 14:00	Gold Sponsor Lunch Break (Vibration Institute)	
Sessions-01-01 14:00 – 14:45 Sessions-01-02 14:45 – 15:30	Session: Technology-01	
	Technology Session-01-01	
	"Monitoring Strategy to Enable Early Detection of Impending Failures on Reciprocating Compressors"	
	Fayyaz Karim Qureshi, Bently Nevada	
	Technology Session-01-02	
	"10 years of Condition Monitoring of 3 Reciprocating Compressors"	
	Alexander Harenkamp, Prognost	
	Session: Case Studies-01	
	Case Studies Session-01-01	
	"High Compressor Loading Post Installation Commissioning"	
	Aleen Javu Maluleke, Saudi Aramco	
	Case Studies Session-01-02	
	"Investigation of Vibration in a Recycle Gas Compressor"	
	Fatema Shukri, BAPCO Refinery	
15:30 – 16:15	Coffee Break (Exhibit Hall)	
Sessions-02-01 16:15 – 17:00 Sessions-02-02 17:00 – 17:45	Session: Technology-02	
	Technology Session-02-01	
	"Hivor: Redefining Maintenance with Real-Time Oil Monitoring"	
	Simone Mozzon, SanChip	
	Technology Session-02-02	
	"Bearing Modifications for a Partial Arc Steam Turbine"	
	Abdullah Balhaddad, AB Vibration Consultant Ltd	
	Session: Case Studies-02	
	Case Studies Session-02-01	
	"Effect of Grid Coupling Greasing on the Vibration of Huge Centrifugal Fan in Cement Plant"	
	Walid Abdelnabi, Amreyah Cement (SESCO Group)	
	Case Studies Session-02-02	
	"Augmenting Reliability of Integral Gear Pump Through Integrating Quality Control with Vibration Analysis"	
	Uddin Danish M, Saudi Aramco	
18:30 – 20:00	Cocktail-Beran Instruments	

Tuesday November 12th, 2024	
08:45 – 10:15	**Session: Keynote Session 2**
	"Standardized Fan Diagnostics using ISO 13373-5" **Prof. Aly El-Shafei, RITEC**
10:15 – 11:00	Coffee Break (Exhibit Hall)
11:00 – 12:30	**Plenary Speaker 2**
	"Data Time Stamping Utilizing Synchronized GPS Time with 100-Nanosecond Accuracy." **Darren Fraser, Crystal Instruments**
12:30 – 15:30	Gold Sponsor Lunch Break (RITEC)
Sessions-03-01 14:00 – 14:45 Sessions-03-02 14:45 – 15:30	**Session: Technology-03**
	Technology Session-03-01
	"Adventures with Online Multi-Plane Balancing using a Balancing Portal" **Abdelbaky Mahdy, RITEC**
	Technology Session-03-02
	"Cybersecurity Considerations and Recommendations for the Installation of Complex Digital Systems in Nationally Important Infra-Structure" **Duncan Affleck, Beran.**
	Session: Case Studies-03
	Case Studies Session-03-01
	"Hawiyah Gas Plant G-501B DGA Circulation Pump Reliability Challenge" **Ahmed Yousef Aljassir, Saudi Aramco**
	Case Studies Session-03-02
	"Investigating High Casing Vibration of a Centrifugal Pump: A Comprehensive Analysis Approach" **Wesam A. Alharbi, Saudi Aramco**
15:30 – 16:15	Coffee Break (Exhibit Hall)
Sessions-04-01 16:15 – 17:00 Sessions-04-02 17:00 – 17:45	**Session: Technology-04**
	Technology Session-04-01
	"Ultrasound in the IIOT: The Future of Condition Monitoring & Lubricating Bearings Remotely" **Ahmed Moataz, UE Systems**
	Technology Session-04-02
	"IOT Condition Monitoring Implementation – A Step Towards Industry 4.0" **Sudhir Kumar Antala, Sohar Aluminum**
	Session: Case Studies-04
	Case Studies Session-04-01
	"Steam Turbine – Generator. Something Against Known Theory of Balancing?" **Sergey Drygin, Bently Nevada**
	Case Studies Session-04-02
	"Balancing Rotor with non-Repeatable Phase Angle" **Imran Shah, Saudi Aramco**
18:30 – 20:00	Cocktail - Sliver Sponsor

Wednesday November 13th, 2024	
08:45 – 10:15	Session: Keynote Session 3
	"Why Modern Vibration Technology Still Fails to Resolve Rotor Vibration Root Causes"
	Abdulrahman Alkhowaiter, Saudi Aramco
10:15 – 11:00	Coffee Break (Exhibit Hall)
11:00 – 12:30	Plenary Speaker 3
	"Unbalance Control of a Smart Electro-Magnetic Actuator Journal Integral Bearing (SEMAJIB)"
	Prof. Aly El-Shafei, RITEC
12:30 – 14:00	Gold Sponsor Lunch Break
Sessions-05-01 14:00 – 14:45 Sessions-05-02 14:45 – 15:30	Session: Technology-05
	Technology Session-05-01
	"Being a Vibration Analyst Only is not Enough"
	Aleen Javu Maluleke, Saudi Aramco
	Technology Session-05-02
	"Leveraging Reinforcement Learning to Generative AI for Machinery Fault Diagnosis"
	MANTOSH BHATTACHARYA, CEng (MIMechE) UK , intl PE UK
	Session: Case Studies-05
	Case Studies Session-05-01
	"Master the Decision: Case Studies of Vibration Analysis of Centrifugal Compressors"
	Hassan Naguib El-Bakry, RITEC
	Case Studies Session-05-02
	"Heavy Rubbings of 14,890 KW Centrifugal Air Compressor"
	Mohammed Sadoon, Saudi Aramco
15:30 – 16:15	Coffee Break (Exhibit Hall)
Sessions-06-01 16:15 – 17:00	Session: Technology-06
	Technology Session -06-01
	"FAULT DIAGNOSIS USING ARITHMETIC AVERAGE OF VIBRATION MEASURED DATA AND MACHINE Efficiency of Artificial Neural Networks (ANN) in classifying faults from limited vibration dataset"
	Musaab Zarog, Sultan Qaboos University
	Session: Case Studies-06
	Case Studies Session-06-01
	"Successful Diagnosis of High Energy Pumps Internal Problems by Utilizing Various Aspects of Vibration Analysis."
	Muhammad Manazirul Haq, Saudi Aramco
17:00	Exhibition Tear Down

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