



**GAS MACHINERY CONFERENCE: OCTOBER 6-9, 2024 IN TAMPA, FL**

**Sunday: October 6th, 2024 Registration 2:00 PM - 6:00 PM  
Tampa Convention Center - Registration Desk for Badge pick up**

5:00 PM - 7:00 PM	Opening Reception sponsored by TBD	Presents the opening reception		
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**Monday: October 7th, 2024**

Time / Room Location	Company	Author/s	Paper Title	Track
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**7 AM Breakfast - Session Room Pre-Function Area, Main Floor of the Tampa Convention Center**

**8 AM - 11 AM Short Courses & Mini-Short Courses | 9:30AM Refreshment Break**

8-11am / Room	SwRI, Solar Turbines, John Crane	Mr. Mark Anguiano, Mr. Aaron Rimpel, Mr. Mark Slotnick, & Dr. Rainer Kurz	Dry Gas Seals (DGS), Support Systems, and GMRC DGS Reliability Testing	Centrifugal Compressors
8-11am / Room	Wood - Vibration, Dynamics and Noise	Mr. Alasdair Robinson & Mr. Nick Cunningham	Introduction to Pulsation and Vibration in Reciprocating Compressors	Reciprocating Compressors
8-11am / Room	TC Energy, Phillips 66, Occidental, NFG	Hemanth Satish, Kenneth L'Anglois, Marcos Sandoval, Jeff Morris	Winterization: Operator Panel Session	Other
8-11am / Room	Ariel Corporation	Mr. Patrick D. Campbell	Basic Thermodynamics of Reciprocating Compression	Reciprocating Compressors
Mini SC 8-9:30am / Room	SwRI	Mr. Justin R. Hollingsworth & Mr. Chris D. Kulhanek	An Introduction to Torsional Rotordynamics	Other
Mini SC 9:30-11am / Room	Sloan Lubrication Systems	Mr. Matt McCarthy	Force Feed Compressor Lubrication, Operation, Maintenance, Troubleshooting and Optimization	Auxiliary Systems

**11:00 AM - 1:00 PM**

**Conference Kick-off Keynote and Luncheon - Keynote Speaker - Adam Markel**


**Tampa Convention Center**

**Sponsored by Sloan Lubrication Systems - Diamond Sponsors**

**1:15 PM - 2:15 PM Technical Papers | Monday: October 7th, 2024**

1:15-2:15pm / Room 101AB	ChampionX & Windrock	Ms. Mary Chapman & Ms. Ashley Byers	Introduction to time waveform and spectrum analysis: How this tool can be incorporated into an existing reciprocating monitoring program to provide additional insight	Data Analytics
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1:15-2:15pm / Room	Wood	Mr. Garth Sanders & Mr. Devin Lavoie	High Risk areas not covered by traditional API 618 studies. Scrubber Bridles, Fuel Gas Systems, Small Bores, and Scrubber Drain Systems.	Reciprocating Compressors
1:15-2:15pm / Room	Elliott Group	Mrs. Marybeth G Mcbain, Mr. Kalyan Malnedi, &Mr. Shane Harvey	Considerations in switching from gas turbines to electric motor drives for pipeline compressors	Centrifugal Compressors
1:15-2:15pm / Room	SwRI	Mr. Francisco Fierro, Mr. Benjamin White & Mr. Dylan Kraus	A Vibration Case Study on a 1950's Compressor Foundation	Vibration/Pulsation
1:15-2:15pm / Room	RPower	Mr. Ryan Rudnitzki & Mr. Tony Mente	Waiting on Wires - How the electrification of our industry is affecting projects and what options exist to meet desired timelines	Emissions
1:15- 4:15pm / Room	Ariel Corporation	Mr. Greg Lortie & Mr. William 'Bill' Couch	PE Ethics Training: Exploring & Understanding Ethical Dilemmas in the Gas Compression Industry	Career Enhancement
<b>2:15 PM - 2:30 PM Networking Break</b>				
<b>2:30 PM - 3:30 PM Technical Papers   Monday: October 7th, 2024</b>				
2:30-3:30pm / Room	Dover Precision Components	Dr. Jonathan Penaranda	Challenges associated with tribological testing of polymers at high temperatures, high speeds, and Hydrogen environment	Reciprocating Compressors
2:30-3:30pm / Room	SwRI	Mr. Brandon Lee Ridens	GMRC Project: Elemental Sulfur Management Guidance for Natural Gas Systems	Other
2:30-3:30pm / Room	TBD	TBD	TBD	TBD
2:30-3:30pm / Room	ABB	Dr. Timo Pekka Holopainen, Mr. Jukka Jarvinen, & Mr. Tommi Ryyppo	Electromagnetic effects in torsional analysis and design of electric motor driven reciprocating compressors	Vibration/Pulsation
2:30-3:30pm / Room	Wood	Mr. Kelly Eberle	A case study of alternative methods of reducing engine and pedestal vibration	Reciprocating Engines
1:15- 4:15pm (Cont.) / Room	Ariel Corporation	Mr. Greg Lortie & Mr. William 'Bill' Couch	PE Ethics Training: Exploring & Understanding Ethical Dilemmas in the Gas Compression Industry	Career Enhancement
<b>3:30 PM - 3:45 PM Refreshment Break</b>				
<b>3:45 PM - 4:45 PM Technical Papers  Monday: October 7th, 2024</b>				
3:45-4:45pm / Room 101AB	Wood - Vibration, Dynamics and Noise	Mr. Wally Bratek	Rotor Vibration Anomalies in Natural Gas Machinery	Centrifugal Compressors

3:45-4:45pm / Room	Colorado State University	Ms. Titilope Banji, Mr. Greg Vieira, Dr. Mark Patterson, & Dr. Daniel Olsen	Methane Emission Reduction Strategies for Two-Stroke Large Bore Natural Gas Engines	Reciprocating Engines
3:45-4:45pm / Room 102ABC	Process Innovations	Mr. Caleb Sargent, Mr. Nawar Fattah, & Mr. Dwayne Allen Hickman	Data Dashboards: Designing for Performance Monitoring and Effective Decision-Making	Data Analytics
3:45-4:45pm / 106BC	SwRI, Kinder Morgan, & ACI Services	Mr. Eugene 'Buddy' Broerman III, Mrs. Christine Scrivner, & Mr. W. Norm Shade	A GMRC Technology: The Virtual Orifice (VO) - Field Testing Results for an Improved Low-Loss Pulsation Control Device	Research
3:45-4:45pm / Room	TC Energy & Turbine Logic	Mr. Hemanth Satish, Mr. Chris Perullo, Dr. Scott Sheppard, & Mr. Corson Teasley	Optimizing Maintenance Intervals on Pipeline Gas Turbine Machinery	Gas Turbines
1:15- 4:15pm (Cont.) / Room	Ariel Corporation	Mr. Greg Lortie & Mr. William 'Bill' Couch	PE Ethics Training: Exploring & Understanding Ethical Dilemmas in the Gas Compression Industry	Career Enhancement
5:30 PM - 7:30 PM	Reception Sponsored by Ariel	   WORLD STANDARD COMPRESSORS		

**Tuesday: October 8th, 2024**

6:30 AM - 8:00 AM	Breakfast Reception by Hoerbiger	 Ballroom \		
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Time / Room Location	Company	Main Author	Paper Title	Track
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**8 AM - 11 AM Short Courses and Mini-Short Courses**

8-11am / Room	Solar Turbines	Dr. Rainer Kurz & Mr. Avneet Singh	Centrifugal Compressors: Principles, Design and Control	Centrifugal Compressors
8-11am / Room	SwRI	Mr. Benjamin White, Mr. Eugene "Buddy" Broerman III, & Ms. Sarah Simons	Advanced Topics in Acoustics and Vibrations	Vibration/Pulsation
9:00-10:00am	Enbridge	Rich Fink	PSC General Research 1 Hour	Other
Mini SC 8-9:30am / Room	step2compliance & Sequitur Energy Resources	Mr. Brian Kromer & Mr. Russ Perry	Case Study: Compliance with the NSPS OOOOs and a Goal of Achieving a Zero Waste Emission Charge	Emissions

Mini SC 8-9:30am / Room	Wood	Mr. Jaehee Chae	Various approaches and design practices for the supporting structures and foundations of reciprocating machinery	Reciprocating Compressors
Mini SC 9:30-11am / Room	Siemens Energy & TC Energy	Mr. Steven Hawley & Mr. Seth Johnson	Maintaining NOx compliance on Integral Gas Engine Compressors in the Good Neighbor (GNR) world!	Reciprocating Compressors
Mini SC 9:30-11:00am / Room	Bill Spitzer and Associates	Mr. Scott Lawrence Bullentini	How to achieve beneficial outcomes when utilizing epoxy grout pumping for installation of skid mounted compressors for new installation projects, in lieu of traditional placement methods	Other
<b>11:00 AM - Exhibit Hall Opening</b>				
<b>11:00 AM - 12:30 PM Lunch with Exhibitors Sponsored by Compressor Engineering Corp.</b>				
<b>1:00 PM - 2:30 PM Tech Updates (10 Technology Updates - 80 Minutes)   Tuesday: October 8th, 2024</b>				
<b>Sponsored by</b>				
8 min	Champion X   Windrock	Mr. James Flemming	Windrock inspires the future of equipment reliability to protect the heartbeat of our client operations	Data Analytics
8 min	Wood	Ms. Starr Dalton	Clamp wars II: A new hope for vibration control and piping flexibility	Vibration/Pulsation
8 min	Reich USA Corporation	Mr. Mauricio Alvarez & Mr. Saurin Patel	Product Innovations in Power Transmission Couplings for the Gas Compression Market	Vibration/Pulsation
8 min	Machinery Monitoring Systems, LLC	Mr. John Biondolillo & Mr. Bret V Hightower	Wireless, Battery-Free Sensor Monitoring	Vibration/Pulsation
8 min	Elliott Turbo	Mr. Stephen Todd Omatick	Elliott Technology CO2 Compressor and Pump Technology	Centrifugal Compressors
8 min	Cook Compression	Mr. Craig Martin	Packing Case Advancements	Reciprocating Compressors
8 min	Altronic LLC	Mr. David Bell	New Technology Presentation	Reciprocating Engines
8 min	MAN Energy Solutions USA Inc.	Ms. Domingo Fernandez	MAN Energy Solutions Subsea & Pipeline Compressor Status and compliance with EPA:Quad O regulations	Centrifugal Compressors
8 min	Solar Turbines	Mr. Avneet Singh	Solar Turbines Tech Update	Gas Turbines
8 min	EMIT Technologies Inc.	Mr. Thomas Peterson	EMIT Technologies Tech Update	Other
<b>2:15 PM Refreshment Break sponsored by ACI Services inc.</b>				
<b>2:30 PM - 3:30 PM Technical Papers   Tuesday: October 8th, 2024</b>				

2:30-3:30pm / Room 1	Coupling Corporation of America	Mr. Jim Anderson III & Mr. Tony DeMatteo	Failed Centrifugal Compressor Couplings Lead to Lengthy Analysis Including Motion Amplification	Centrifugal Compressors
2:30-3:30pm / Room	Energy Transfer & Engineering Dynamics Inc.	Mr. Vaughn Cooper, Mr. Troy Feese, & Mr. Charles Hill	Vibration Issues with Engine Driven Reciprocating Compressor Systems	Vibration/Pulsation
2:30-3:30pm / Room	TC Energy & Sloan Lubrication	Mr. Seth Johnson & Mr. Matt McCarthy	Data analysis of gas quality improvements and operational/maintenance results from 3-1/2 years of a successful 90% reduction in compressor cylinder lubrication rates	Auxilliary Systems
2:30-4:00pm / Room	Petro-Canada Lubricants	Mr. Garrett Bapp & Mr. Howard Soule	Establishing an effective natural gas engine oil analysis program	Reciprocating Engines
2:30-3:30pm / Room	Solar Turbines	Mr. Mike Clay, Dr. Rainer Kurz, Mr. Avneet Singh, & Ms. Cassandra Vallecilla	2024 GMRC Centrifugal Compressors in Gas Gathering Applications - Update	Centrifugal Compressors
2:30-3:30pm / Room 106BC	DCL International	Dr. Shazam Williams, Dr. Robin Hu, & Mr. Brendan Filby	Methane Emissions Destruction	Emissions
<b>3:30 PM- 3:45 PM Break   Tuesday: October 8th, 2024</b>				
<b>3:45 PM- 4:45 PM Technical Papers   Tuesday: October 8th, 2024</b>				
3:45-4:45pm / Room	Shell	Mr. Cesar Lizcano	Considerations for the use of semisynthetic gas compressor oils	Gas Turbines
3:45-4:45pm / Room	Continental Controls Corporation	Mr. David Gordon Fisher Kind	Mitigating Methane Slip in Industrial Natural Gas Engines: Causes and Solutions	Emissions
3:45-4:45pm / Room	ACI Services	Mr. Norm Shade	An Overview of the forthcoming API-11P 3rd Edition	Reciprocating Compressors
2:30-4:00pm (cont.) / Room	Petro-Canada Lubricants	Mr. Garrett Bapp & Mr. Howard Soule	Establishing an effective natural gas engine oil analysis program	Reciprocating Engines
3:45-4:45pm / Room	Step2Compliance	Mr. Brian Kromer	The Forgotten Child of Methane Intensity: Recordkeeping & Reporting	Emissions
3:45-4:45pm / Room	Wood	Mr. Kelly Eberle & Nick Cullingham	Another case of gas charged dampeners not controlling pump system pulsations	Vibration/Pulsation
<b>4:45 PM- 6:00 PM</b>	<b>Exhibitor Hall and Reception Tampa Convention Center - Exhibit Hall</b>			

**Wednesday: October 9th, 2024**

Time / Room Location	Company		Paper Title	Track
<b>6:30 AM - 8:00 AM Breakfast with Exhibitors</b>				
<b>8:00 AM - 9:00 AM Technical Papers</b>				
8-9 am / Room 105ABC	Wood	Mr. Jaehee Chae, Mr. Richard Tchorzewski, Mr. Kelly Eberle, & Mr. Pavel Mayzus	Case Study: Design and Analysis of a High-Pressure Compressor with Unique Requirements	Reciprocating Compressors
8-9 am / Room 101AB	Altronic LLC & Prometheus Applied Technologies	Mr. Keith Brooks, Ms. Emmanuella Sotiropoulou, & Mr. Matthias Huschenbett	ADAPTH2 Combustion Solution: Enabling the Next Level of Performance in Hydrogen & Methane Engines	Reciprocating Engines
8-9 am / Room 101C	Enbridge	Ms. Jnana Bairy, Mr. Ovais Rehman Shah, & Ms. June Zhang	Optimizing The Pipeline: AI-powered Decarbonization Strategies for the Natural Gas Transmission and Storage Systems in the US	Data Analytics
8-9 am / Room 106BC	Hoerbiger	Mr. Benjamin Kluding	Static Sealing Rod Packing: Solving half of the Recip Packing Emissions Problem	Emissions
8-9:30 am / Room 106BC	Wood	Mr. Zachary Dobberthien	Shake Rattle & Grow - Pipe support classification for vibratory and thermal growth applications	Vibration/Pulsation
8-9 am / Room 102ABC	Zahroof Valves	Mr. Brian Bertelsen	How to Economically Justify Improvement Projects and Programs	Career Enhancement
<b>9:15 AM - 10:15 AM Technical Papers   Wednesday: October 9th, 2024</b>				
9:15-10:15am / Room 101AB	Burns & McDonnell	Mr. Ameerudeen Najumudeen	Emissions Reduction through Hydrogen Blending in Fuel Gas	Research
9:15-10:15pm / Room 105ABC	Ariel Corporation & Hoerbiger	Mr. Joe Hagan, Mr. Randy Dal Molin, & Mr. Dave Forster	Net CO2e Reduction by Improved Horsepower Utilization	Reciprocating Compressors
9:15-10:15am / Room 106BC	Cooper Machinery Services	Mr. Mark Patterson	Technology Road Map for Meeting Good Neighbor Emissions Standards	Emissions
9:15-10:15am / Room 102ABC	Wood PLC, Canlin Energy Corporation	Mr. Bryan Long, Mr. Matt Robinson, Mr. Mehdi Arjmand, & Mr. Kelly Eberle	Insights from long term monitoring of actual versus theoretical compressor capacity	Reciprocating Compressors
8-9:30 am (Cont.) / Room 106BC	Wood	Mr. Zachary Dobberthien	Shake Rattle & Grow - Pipe support classification for vibratory and thermal growth applications	Vibration/Pulsation

9:15-10:15am / Room 101C	ACI Services, Inc, ENTrust, Altronic	Mr. Dwayne Allen Hickman, Mr. Ryan Fitzgerald, & Mr. David Lepley	Control and Protection of Reciprocating Compressors: The Past, The Present, and The Future	Reciprocating Compressors
<b>10:15 AM Refreshment Break sponsored by</b>				
<b>10:30 AM - 12:00 PM Tech Updates (10 Technology Updates - 80 Minutes)   Wednesday: October 9th, 2024</b>				
<b>Sponsored by</b>				
8 min	Shell Oil Products	Mr. Cesar Lizcano	Gas Compressor Oil Solutions	Gas Turbines
8 min	ACI Services Inc.	Mr. Norm Shade & Mr. Matt Janssen	Converting GMV engine-compressors to gas turbine waste heat generated steam	Reciprocating Engines
8 min	Ariel Corporation	Mr. Jacob Shackelford	Ariel Non-lube, High Pressure Hydrogen Compressor Update	Reciprocating Compressors
8 min	Onboard Dynamics LLC	Mrs. Rita Hansen	The Critical Role of Accurate Reporting in Mitigating Methane Emissions	Emissions
8 min	INNIO	Mr. David Azhocar	Goodbye Diesel - Hello Gas!	Reciprocating Engines
8 min	Idemitsu Lubricants America Coproration	Mr. Thomas Khondaker	Idemitsu lubricants for reciprocating compressor for natural gas pipeline application	Auxiliary Systems
8 min	Baker Hughes	Ms. Federica Furcas, Mr. Olivier Pellerin, & Mr. Nike Dupuis	Electric compression in Gas Transmission: the adoption of integrated solutions	Centrifugal Compressors
8 min	Caterpillar Oil & Gas	Mr. Hassan Khalid	Reciprocating Gas Engine-Driven Compressor System Optimization	Emissions
8 min	Chart Industries	Mr. David Schroeder	Release of the new CPI Proflo PF2 programmable lubrication monitoring and shutdown device for reciprocating compressors	Reciprocating Compressors
8 min	Cooper Machinery Services	Mr. Hans Mathews	New emissions technology offering from Cooper Machinery Services	Reciprocating Engines
<b>12:00 PM - 1:00 PM</b> <b>Exhibit Hall Lunch</b>				
<b>1:15 pm - 4:15 pm Short Courses   Wednesday: October 9th, 2024</b>				
1:15-4:15pm / Room 1	IES	Mr. Jim McCarthy	Air Regulatory Update	Emissions
1:15-4:15pm / Room	SwRI, SoCalGas, NFG, Enbridge	Ms. Sarah Simons, Mr. Dylan Kraus, Mr. Amado Galaviz, Mr. Ahmed Nassar, Mr. Benjamin White	Part 1: Operator Panelists Discussing Hydrogen Blending Part 2: Full Scale Natural Gas Compressor Loop Testing with Blended Hydrogen--A GMRC/DOE Project	Reciprocating Compressors

Mini SC 1:15-2:45pm / Room	Siemens Energy, Marathon Petroleum	Mr. Scott Stampka & Mr. Matt Stegmiller	A Pragmatic Approach to Solving Piping Vibration Issues	Vibration/Pulsation
Mini SC 1:45-2:45pm / Room	Solar Turbines Inc. & RKS Benergy	Dr. Rainer Kurz & Mr. Avneet Singh	Power Cycles: Gas Engines, Gas Turbines, Steam Turbines and other heat engines	Other
Mini SC 2:45-4:15pm / Room	Wood, Kinder Morgan, SWRI, EDI	Mr. Wally Bratek, Ms. Christine Scrivner, Mr. Eugene Buddy Broerman, Mr. Benjamin White, & Mr. Charles Hill	New Release: API 688 Pulsation and Vibration Control for Positive Displacement Machinery, 2nd Edition	Vibration/Pulsation
Mini SC 2:45-4:15pm / Room	Elliott Group	Mrs. Marybeth G. McBain & Mr. Karl Wygant	A Review of Key Enabling Technologies for CO2 capture, Compression and Transport	Centrifugal Compressors
<b>GMRC Annual Membership Meeting - 4:15 PM - 5:00 PM</b>				
5:00 PM - 6:30 PM	<b>GMC Closing Reception sponsored by Shell</b>	