



**GAS MACHINERY CONFERENCE: OCTOBER 3-6, 2021 LIVE / IN-PERSON IN LOUISVILLE, KENTUCKY**

<b>Sunday: October 3, 2021 Registration 3:00PM-6:00PM</b>			
<b>Sunday: October 3, 2021 Reception Hosted by UPS 5:30PM - 7:30PM</b>			
<b>Monday: October 4, 2021</b>			
<b>Time / Room Location</b>	<b>Company</b>	<b>Main Author</b>	<b>Paper Title</b>
<b>8am-11am Short Courses</b>			
8-11am	Ariel	Greg Phillippi	SC01: Basic Thermodynamics of Reciprocating Compression
8-11am	Solar Turbines	Dr. Rainer Kurz	SC02: Industrial Gas Turbines and Electric Motor Drives for Centrifugal Compressors
8-11am	Wood VDN	Gary Maxwell	SC09: Introduction to pulsation and vibration on reciprocating compressors
8-11am	Southwest Research Institute, SwRI	Justin Hollingsworth	SC03: An Overview of Machinery Rotordynamics
8-11am	Cooper Machinery Services	Hans Mathews	SC12: Equivalence Ratio Modeling – The Basics
<b>11:00-11:30 Break</b>			
<b>11:30-1:00 pm Conference Kick-off Keynote from Jimmy Staton, CEO, Southern Star Central Gas Pipeline, Luncheon</b>			
<b>1:15-2:15pm Technical Papers</b>			
1:15-2:15pm	Southwest Research Institute	Sarah Simons	TP01: Hydrogen Pulsation/Mechanical Considerations
1:15-2:15pm	Siemens	Gautam Chhibber	TP33: Strategies for Reducing Fugitive Emissions and Future-proofing Legacy Centrifugal Compressor Stations
1:15-2:15pm	Engineering Dynamics Inc.	Troy Feese	TP06: Special Considerations for Electric Motors Driving Reciprocating Compressors
1:15-2:15pm	CSU	Rodrigo Antonio Bauza	TP31: Improved catalyst regeneration process to increase poison removal and improve performance recovery
1:15-2:15pm	Wood VDN	Wally Bratek	TP17: Fiber Optic Strain Pulsation Measurements
<b>2:30-3:30pm Technical Papers</b>			

2:30-3:30pm	TC Energy / Sloan Lubrication Systems	C.J. Sloan	TP47: Gas Quality Improvements Targeted Via 88% Reduction in Compressor Cylinder Lubrication Rates
2:30-3:30pm	Southwest Research Institute	Aaron Rimpel	TP08: Dry Gas Seal Reliability:A Study of the Effects of Liquid Contamination on Seal Performance, Phase 3A
2:30-3:30pm	Williams	Michael Lynch	TP16: TCVC 20: Zero Hour Overhaul
2:30-3:30pm	Wood VDN	Kelly Eberle	TP36: Determining allowable weld flaw sizes in pulsation bottles
<b>3:45-4:45pm Technical Papers</b>			
3:45-4:45pm	Southwest Research Institute	Dr. Tim Allison	TP59:Hydrogen Compressor Requirements and Technology for Blended Pipelines
3:45-4:45pm	SwRI	Ben White	TP18: Mechanical Piping Design Guidelines for Non-Recip Piping Systems
3:45-4:45pm	Zahroof Valves Inc. / Southwest Research Institute	Zahroof Mohamed	TP49: Performance Evaluation of Radial Valves for Pipeline Transmission Applications
3:45-4:45pm	ACI Services	Dwayne Hickman	TP22: Edge Computing Challenge and Solution
3:45-4:45pm	Cooper Services	Gert Dam	TP13: A non-intrusive, vibration based, automated analysis supports compression equipment efficiently & economically
<b>Reception hosted by Ariel, Frazier Museum 5:30PM - 7:30PM</b>			
<b>Tuesday: October 5, 2021</b>			
<b>Breakfast Reception by Hoerbiger, 6:00 AM - 8:00 AM</b>			
<b>Time / Room Location</b>	<b>Company</b>	<b>Main Author</b>	<b>Paper Title</b>
<b>8am-11am Short Courses</b>			
<b>8-9:30 am</b>	<b>Panel Session</b>	<b>Moderator: Suzanne Ogle with GMRC. Kinder Morgan &amp; Williams</b>	<b>Strategic Visions for ESG for the Natural Gas Industry</b>
8-11am	Hoerbiger Corporation of America	Randy Dalmolin	SC11: Basics of Compressor Valve Design & Troubleshooting
8-11am	Elliott Turbo, Solar Turbines	Dr. Klaus Brun	SC10: Turbomachinery for Refinery Applications
8-11am	Southwest Research Institute	Eugene L. Broerman	SC06: Advanced Topics in Pulsation and Vibration Control
Mini SC 8-9:30am	Hoerbiger	John Ladd	MC04: Fundamental Compressor Forces

Mini SC 9:30-11am	Wood VDN	Jaehee Chae	MC06: Design and Stress analysis of the piping for rotating machinery
Mini SC 9:30-11am	ACI Services, Inc.	Dwayne Hickman	MC05: Reciprocating Compressor Performance - Seeing the Big Picture
<b>11am-1pm Lunch with Exhibitors</b>			
<b>12:45pm-2:30 pm Tech Updates (12 tech updates)</b>			
8 min	Solar Turbines	Dr. Rainer Kurz	TU02: Hydrogen Fuels
8 min	Wood VDN	Gary Maxwell	TU04: One Clamp to Rule Them All
8 min	Southwest Research Institute	Dr. Tim Allison	TU18: Evaluating Blended Hydrogen Pipelines: Analysis and Test Capabilities
8 min	Elliott Turbo	Stephen Todd Omatick	TU11: Elliott Products for Midstream Applications
8 min	Cooper Machinery Service	Hans Matthews	TU26: Cooper Superior update
8 min			
8 min	Emit Technologies	Thomas Peterson	TU03: EMIT Technologies Controls Update
8 min	Zahroof Valves Inc.	Zahroof Mohamed	TU16: Zahroof Valves Inc., Technology Update 2020-2021
8 min	ACI Services, Inc.	Dwayne Hickman	TU21: Tech Update for ACI's eRCM Products and Solutions
8 min	INNIO Waukesha Gas Engines	Nick Klosinski	TU13: INNIO Waukesha Gas Engines Service Technology Update
8 min	Siemens Energy	Austin Neumeier	TU14: iFLOW g3 Release and Remote Diagnostic Services
8 min	ChampionX/Windrock	Caleb Clark	TU07: Control of Compressor Fouling and Corrosion with a Single Product - Windrock
<b>2:30-3:30pm Technical Papers</b>			
2:30-3:30pm	Southwest Research Institute	Jason Wilkes	TP60: Development and Test Progress Towards a Supercritical Carbon Dioxide-Based Gas Turbine Waste Heat Recovery System
2:30-3:30pm	Solar Turbines	Dr. Rainer Kurz	TP05: Control Concepts for Centrifugal Compressors
2:30-3:30pm	Chart Industries	Ryan Elliott	TP63: Burn it, cut it, or scrub it: Emissions Considerations for Engine, Fuel Treatment and Catalyst Selection in Rich Gas plays
2:30-3:30pm	No Bull Engineering	Mark Corbo	TP11: VFD'S – The Torsional Analyst's Best Friend or Worst Nightmare?
<b>3:45-4:45pm Technical Papers</b>			

3:45-4:45pm	Elliott Group	Derrick Bauer	TP51: Materials for High-Pressure Hydrogen Compression and
3:45-4:45pm	Enbridge	Chuks Amobi	TP10: Half a Mile Spacing from Compressor Station to Meter Station is Far Enough, right?
3:45-4:45pm	TECO-Westinghouse Motor Company	Enrique Ledezma	TP45: SiC Based MVD Power Technology for Heat Recovery Applications
3:45-4:45pm	Siemens Energy/Proflex	Stuart Mitchell	TP42: Exploring the Latest Advancements in IoT-based Leak Detection
3:45-4:45pm	ChampionX/Windrock	Tony Hernandez	TP26: Portable vs. Automated Balancing for Slow-Speed Reciprocating Engines

**4:45-6 pm Exhibitor Hall Reception**

**Wednesday: October 6, 2021**

Time / Room Location	Company	Paper Title
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**8-9 am Technical Papers**

<b>8-10:15 am Panel</b>	<b>Data Analytics Panel Session</b>	<b>Monico, Inc., Innio, Cooper, Siemens Energy, Solar Turbines, Veros, &amp; ChampionX</b>	<b>How Data Analytics Can Transition the Industry</b>
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8-9 am	Southwest Research Institute	Eugene Broerman	TP53: Development of a Hermetically Sealed Linear Motor Reciprocating Compressor (LMRC) – Tested with Discharge Pressure Near 700 psi
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8-9 am	HOERBIGER Wien GmbH	Bernhard Fritz	TP57: Closing the loop on reciprocating compressor cylinder lubrication
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8-9 am	Wood VDN	Dwayne Hickman	TP35: Discharge temperature calculation – that’s a hot topic
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8-9 am	ChampionX / Windrock	Caleb Clark	TP27: Compressor Vibration Control via Chemical Application
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**9:15-10:15 am Technical Papers**

9:15-10:15am	Williams / Siemens	Scott Allen Tacket	TP24: Electrifying a Legacy Compressor Station as a Means to Lower Emissions and Reduce OpEx
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9:15-10:15am	Radical Combustion Technologies	Michael Manfredi	TP25: Implementation and Field Testing of Enhanced Radical Ignition (ERI) in a GMVC6 open chamber natural-gas engine
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9:15-10:15am	Wood VDN	Mathieu Barabe	TP37: Damped Head-End Outboard Supports For A Large Reciprocating
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9:15-10:15am	Southwest Research Institute, SwRI	Griffin Beck	TP15: Development of a Robust Scrubber Level Controller – Part 3
<b>10:30-12:15 pm Tech Updates (12 tech updates)</b>			
8 min	Shell Lubricants	Cesar Lizcano	TU27: Converting to Polyalkylene Glycol Lubricants in Modern Gas
8 min	Cooper Machinery Services	Patrick Gillespie	TU17: Cooper Machinery Services update
8 min	INNIO's Waukesha gas engines	Ryan Krafcheck	TU22: Waukesha engine Tech Update
8 min	Caterpillar	Micheal Coppinger	TU30: Caterpillar Technolgy Updates
8 min	AAA Tech	Reid McNally	TU25: New Clamp Technologies
8 min	SwRI	Buddy Broerman	TU24: SwRI and ACI - Virtual Orifice standardization
8 min	ChampionX/Windrock	Bill Broussard	TU09: Compressor Analytics as a Service – DCP & Windrock
8 min	DOW	Jillian Charon	TU10: Solvent Mitigation of Salt Fouling in Natural Gas Dehydrators
8 min	Hoerbiger Service inc.	Kerry Root	TU12: VISTRA - Digital Transformation of Compressor Repair
8 min	Siemens Energy	Devon Babcock	TU05: O-ring Conversion of Gasketed Reciprocating Compressor Cylinders to Meet CARB Emissions Standards
8 min	Monico, Inc.	Doyle Taylor	TU01: New Features of mCore & MonicoLive
<b>12:15-1:15pm Exhibit Hall Lunch</b>			
<b>1:15-4:15pm Short Courses</b>			
1:15-4:15pm	Jim McCarthy	Jim McCarthy	SC14: Air Regulatory Update
1:15-4:15pm	Southwest Research Institute	Nathan Poerner	SC07: Have Sensors, Will Travel
1:15-4:15pm	Wood VDN	Wally Bratek	SC05: Field techniques for torsional vibration measurements with case studies
1:15-4:15pm	Wood VDN	Jaehee Chae	SC08: Foundation design practices for reciprocating and rotating machinery
Mini SC 1:15-2:45pm	Southwest Research Institute	Sarah Simons	MC02: Beyond API Standard Analyses: Flow, Acoustic, and Turbulence Induced Vibration (FIV, AIV, FIT) Small Bore Piping Vibration
Mini SC 2:45-4:15pm	Mueller Environmental Designs, Inc.	Lawrence Patrick Selensky	MC03: ASME Code Overview/2021 Changes and Notch Toughness Case Study
<b>GMRC Annual Membership Meeting - Marriott 4:15 PM - 5:00 PM</b>			
<b>Marriott Hotel Closing Reception 5:30 PM - 6:30 PM</b>			