

AUXILIARY EQUIPMENT / FILTRATION	COMPRESSOR MAINTENANCE	ELECTRICAL AND IGNITION EQUIPMENT
Room 323	Room 324	Room 325
<b>Tuesday</b>	<b>Tuesday</b>	<b>Tuesday</b>
<b>1:00 - 2:30</b> <b>Startup &amp; General Maintenance for Air Cooled Heat Exchangers</b>  <i>Kendal Barber, Smithco Engineering</i>	<b>1:00 - 2:30</b>  <b>Compressor Theory</b>  <i>Randy Dal Molin, Hoerbiger</i>	<b>1:00 - 2:30</b>  <b>Ignition Systems</b> <b>ROUNDTABLE DISCUSSION</b>  <i>Michael Porter, Paul McHenry, Hoerbiger/Altronic Pat Runnels, Darrell Schmitt, FW Murphy Prod Controls Robert Virchow, Mark Skidmore, Motortech</i>
<b>2:40 - 4:10</b>  <b>Gas Heating Equipment Design</b>  <i>Daniel Huffaker, Total Products Services</i>	<b>2:40 - 4:10</b>  <b>Recip Compressor Packing, Vents and Drains</b>  <i>Paul Cook, Cook Compression</i>	<b>2:40 - 4:10</b>  <b>Spark Plugs &amp; Ignition Accessories</b>  <i>Ken Blanchard, Stitt, Charles Chewning, Champion, Alain LeFloch, BG Services</i>
<b>Wednesday</b>	<b>Wednesday</b>	<b>Wednesday</b>
<b>8:00 - 9:30</b> <b>Startup &amp; General Maintenance for Air Cooled Heat Exchangers</b>  <i>Kendal Barber, Smithco Engineering</i>	<b>8:00 - 9:30</b>  <b>Recip Compressors, Protection and Condition Monitoring</b>  <i>Charles 'Chuck' Jenkins, Bently Nevada, a BHGE Company</i>	<b>8:00 - 9:30</b>  <b>Safety Instrumented Systems Solutions for SIL Compliance</b>  <i>Scott Pierce, United Electric Controls</i>
<b>9:40 - 11:10</b> <b>Keeping Contaminants Out of Compressors, Facilities &amp; Pipelines Part 1</b>  <i>Bill Couch, Parker Hannifin</i>	<b>9:40 - 11:10</b>  <b>Trouble Shooting Screw Compressors</b>  <i>Lee Levisay, The PROS Company</i>	<b>9:40 - 11:10</b>  <b>EICS - Engine Integrated Control System</b>  <i>Pat Runnels, Darrel Schmitt, FW Murphy Production Controls</i>
<b>1:00 - 2:30</b> <b>Keeping Contaminants Out of Compressors, Facilities &amp; Pipelines Part 2</b>  <i>Bill Couch, Parker Hannifin</i>	<b>1:00 - 2:30</b>  <b>Compressor Maintenance Frames &amp; Components</b> <b>ROUNDTABLE DISCUSSION</b>	<b>1:00 - 2:30</b>  <b>Electrical Hazardous Area Classification</b>  <i>George Samo, EQT</i>
<b>2:40 - 4:10</b>  <b>Gas Heating Equipment Maintenance</b>  <i>Daniel Huffaker, Total Products Services</i>	<b>2:40 - 4:10</b>  <b>Compressor Maintenance Cylinders &amp; Components</b> <b>ROUNDTABLE DISCUSSION</b>	<b>2:40 - 4:10</b>  <b>Back to Basics - RICE Compliance Through Basic Maintenance</b>  <i>Pat Runnels, FW Murphy Production Controls</i>
<b>Thursday</b>	<b>Thursday</b>	<b>Thursday</b>
<b>8:00 - 9:30</b>  - No Session -	<b>8:00 - 9:30</b>  <b>Compressor Value Short Course Part 1</b>  <i>Patrick Taylor, Hoerbiger, Steve Chaykosky, Dresser-Rand/Siemens</i>	<b>8:00 - 9:30</b>  <b>Instrumentation &amp; Controls Troubleshooting: Part 1</b>  <i>Raymond Carr, FW Murphy Production Controls</i>
<b>9:40 - 11:10</b>  - No Session -	<b>9:40 - 11:10</b>  <b>Compressor Value Short Course Part 2</b>  <i>Patrick Taylor, Hoerbiger, Steve Chaykosky, Dresser-Rand/Siemens</i>	<b>9:40 - 11:10</b>  <b>Instrumentation &amp; Controls Troubleshooting: Part 2</b>  <i>Raymond Carr, FW Murphy Production Controls</i>

ENVIRONMENTAL HEALTH AND SAFETY	GAS ENGINE MAINTENANCE	GAS PROCESSING
Room 326	Room 327	Room 328
<b>Tuesday</b>	<b>Tuesday</b>	<b>Tuesday</b>
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
<b>Hazards with Storage Tanks / Safe Solutions in Operations</b>  <i>Brandon Bajek, ECI</i>	<b>Gas Engine Principles; Basics of Combustion; Basic Exhaust Emissions</b>  <i>Bill Wirz, Dresser-Rand Company</i>	<b>Flares / Thermal Oxidizers</b>  <i>Terry Nelson, Tony Brown, Waukesha-Pearce Industries (WPI)</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
<b>Air Permitting—Comp. Stations /Well Pads Using Available Gen'l Permits in PA, OH, WV</b>  <i>Patty Centofanti, Trinity Consultants</i>	<b>Turbo, Blowers, Scavenging/Emissions Technology</b>  <i>Mitch Opat, Archrock, Greg Adams, GE Oil &amp; Gas</i>	<b>Passive/ Robotic Inspections of Firetubes</b>  <i>Jamie Gauthier, GE Inspection Services</i>
<b>Wednesday</b>	<b>Wednesday</b>	<b>Wednesday</b>
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
- No Session -	<b>Major Components: Evaluation and Maintenance</b> <b>ROUNDTABLE DISCUSSION</b> <i>Dusty Smith, Andy Zimmerman, Bryan Beachy; EQT, Greg Adams, GE, Mitch Opat, Archrock, Bill Wirz, Dresser-Rand</i>	<b>Gas Processing Systems: Types of Equipment, Operation &amp; Sugg. Maint.</b> <b>ROUNDTABLE DISCUSSION</b> <i>Terry Nelson, WPI, Mike Riddell, RMS Engineers</i>
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
<b>Hazards with Storage Tanks / Safe Solutions in Operations</b>  <i>Brandon Bajek, ECI</i>	<b>Major Components: Evaluation and Maintenance</b> <b>ROUNDTABLE DISCUSSION</b> <i>Dusty Smith, Andy Zimmerman, Bryan Beachy; EQT, Greg Adams, GE, Mitch Opat, Archrock, Bill Wirz, Dresser-Rand</i>	<b>Gas Dehydration Part I</b>  <i>Terry Nelson, Tony Brown, Waukesha-Pearce Industries (WPI)</i>
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
<b>What to Expect When You're Inspected</b>  <i>Patty Centofanti, Trinity Consultants</i>	<b>Gas Valves &amp; Engine Balancing</b>  <i>Scott Fletcher, TransCanada</i>	<b>Gas Dehydration Part II</b>  <i>Terry Nelson, Tony Brown, Waukesha-Pearce Industries (WPI)</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
<b>Update/Background on Gas Turbine Air Permitting Requirements for NE USA</b>  <i>Anthony Pocengal, Solar Turbines</i>	<b>Foundations and Grout</b>  <i>Scott Vercoe, Energy Tech Systems, Jay Greer, Iron Horse</i>	<b>Gas Dehydration Part III</b>  <i>Terry Nelson, Tony Brown, Waukesha-Pearce Industries (WPI)</i>
<b>Thursday</b>	<b>Thursday</b>	<b>Thursday</b>
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
- No Session -	<b>Preventative/Predictive Maintenance</b>  <i>Keith Schafer, TransCanada</i>	<b>Gas Filters / Separation</b>  <i>Terry Nelson, Tony Brown, Waukesha-Pearce Industries (WPI)</i>
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
- No Session -	<b>Journal Bearings</b>  <i>Greg Bone, MIBA Bearing Group</i>	- No Session -

GAS TURBINES & CENTRIFUGAL COMPRESSOR	GENERAL INTEREST I	GENERAL INTEREST II
Room 329	Room 330	Room 333
<b>Tuesday</b>	<b>Tuesday</b>	<b>Tuesday</b>
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
<b>Troubleshooting Gas Turbine and Centrifugal Gas Compressors</b>  <i>Gary Corbello, Ethos Energy</i>	<b>Compressor Alignment: Shaft and Flatness in Compliance with Ariel ER-82 Specification</b>  <i>Jay Richardson, LUDECA Inc.</i>	<b>Reciprocating Compressor Fleet Reliability: Part 1</b>  <i>Alex Sosnowski, Jiten Mistry, Wood</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
<b>Fire and Gas Detection for Turbine and Compressor Sets</b>  <i>Ken Salmen, Salmen Tech Co.</i>	<b>ASCO - 2, 3 and 4-way Solenoid Valves</b>  <i>Frank Farina, Emerson ASCO</i>	<b>Reciprocating Compressor Fleet Reliability: Part 2</b>  <i>Alex Sosnowski, Jiten Mistry, Wood</i>
<b>Wednesday</b>	<b>Wednesday</b>	<b>Wednesday</b>
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
<b>Rosemount Pressure and Temperature Transmitters</b>  <i>Greg Wentzel, Emerson</i>	- No Session -	<b>Managing Small-Bore Piping Vibration - the Leading Cause of Fatigue Failures</b>  <i>Alex Sosnowski, Wood</i>
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
<b>Hart Communications Hands on Class</b>  <i>Greg Wentzel, Emerson</i>	<b>Zero Emission Blowdown</b>  <i>Thomas Kerr, Kerr Engineered Sales</i>	<b>Considerations for a Flexibility Analysis of Piping Systems in Vibration Applications</b>  <i>Gary Maxwell, Wood</i>
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
<b>Turbine Recycle Valve Operation, Maintenance</b>  <i>Jim Neville, ECI</i>	<b>Proper Tensioning and Torqueing</b>  <i>Mike Mutich, Bolttech</i>	<b>Back to Basics Vibration Problem Solving</b>  <i>Jiten Mistry, Wood</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
<b>Micro Motion Flow Meters</b>  <i>Emerson</i>	<b>Reciprocating Compressor Performance Software</b>  <i>Joe Wilson, Dwayne Hickman, ACI Services, Inc.</i>	<b>Introduction to Reciprocating and Centrifugal Pumps</b>  <i>Gary Maxwell, Wood</i>
<b>Thursday</b>	<b>Thursday</b>	<b>Thursday</b>
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
<b>Testing/Setting Turbine Control/Differential Pressure Switches</b>  <i>Glenn Mastmann, Iroquois Gas</i>	- No Session -	- No Session -
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
- No Session -	- No Session -	- No Session -

GENERAL INTEREST III	LUBRICATION & FILTRATION	PIPELINE VALVE & ACTUATION MAINTENANCE
Room 334	Room 338	Room 335
<b>Tuesday</b>	<b>Tuesday</b>	<b>Tuesday</b>
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
<b>Performance Control Devices Short Course, Part 1</b>  <i>Tyler Clark, Dwayne Hickman, ACI Services, Inc.</i>	<b>Basics of Lubricants - What Are the 5 Groups?</b>  <i>Chad George, Summit</i>	<b>Ball Valve Basics</b>  <i>Tim Northrup; Walt Elmquist - Northrup Equipment</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
<b>Performance Control Devices Short Course, Part 2</b>  <i>Tyler Clark, Dwayne Hickman, ACI Services, Inc.</i>	<b>Force Feed Lubrication System Comp &amp; Flow Rates Roundtable</b>  <i>Matt McCarthy - Sloan Lubrication; Bill Pullin - Reynolds French</i>	<b>Plug Valve Basics</b>  <i>Chad Nienser - CSN Solutions</i>
<b>Wednesday</b>	<b>Wednesday</b>	<b>Wednesday</b>
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
<b>Corrosion Protection for Compression Facilities</b>  <i>William Hudak, P.E., Tim Quetsch, E.I.T.</i>	- No Session -	<b>Ball Valve Maintenance and Field Practical Troubleshooting Roundtable</b>  <i>Chad Nienser - CSN Solutions; Tim Northrup; Walt Elmquist - Northrup Equipment</i>
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
<b>Empirical HP Curves</b>  <i>Bob Webber, Siemens</i>	- No Session -	<b>Valve Maintenance Injection Equipment</b>  <i>Ward Hzuza - Sealweld USA</i>
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
<b>Users Group - High Speed Recip Engine &amp; Compressor Roundtable</b>  <i>Frank Parker, EQT</i>	<b>Force Feed Lubrication Systems for Engines and Compressors: System Maintenance, Troubleshooting &amp;</b> <i>Matt McCarthy - Sloan Lubrication; Bill Pullin - Reynolds French</i>	<b>Rotary Vane Actuators</b>  <i>Robbie Broussard - TransCanada - CPG</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
<b>GE Waukesha Product Update</b>  <i>Chris Kipp, GE Power</i>	- No Session -	<b>Scotch Yoke Actuators</b>  <i>John Brown - TQT</i>
<b>Thursday</b>	<b>Thursday</b>	<b>Thursday</b>
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
- No Session -	- No Session -	<b>Actuator Maintenance and Troubleshooting</b> <i>Robbie Broussard - TransCanada - CPG; John Brown - TQT</i>
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
- No Session -	- No Session -	<b>Valve Commissioning Roundtable Discussion</b>  <i>Tim Northrup; Walt Elmquist - Northrup Equipment; Ward Hzuza - Sealweld USA;</i>

<b>TECHNICAL AND ENGINEERING</b>			<b>ENTRY LEVEL COMPRESSOR STATION OPERATOR TRAINING - \$350</b>			<b>OEM SOLAR TURBINES</b>		
<b>Room 336</b>		<b>Room 311</b>		<b>Room 307</b>				
<b>Tuesday</b>		<b>Tuesday</b>		<b>Tuesday</b>				
<b>1:00 - 2:30</b>		<b>1:00 - 2:30</b>		<b>1:00 - 2:30</b>				
<b>Electrical Hazardous Area Classification</b>		<b>Compressor Stations and Their Functions</b>		<b>OEM Solar Turbines #1</b>				
<i>George Samo and Andrew Manski, EQT</i>		<i>Jay Jackson and Steve Hower, EQT</i>		<i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>				
<b>2:40 - 4:10</b>		<b>2:40 - 4:10</b>		<b>2:40 - 4:10</b>				
<b>Compressor Station Control System Design</b>		<b>Compressor Station Equipment and Yard Piping</b>		<b>OEM Solar Turbines #2</b>				
<i>Chuck Huizenga, Ryan Fitzgerald, Basic Systems, Inc.</i>		<i>Jay Jackson and Steve Hower, EQT</i>		<i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>				
<b>Wednesday</b>		<b>Wednesday</b>		<b>Wednesday</b>				
<b>8:00 - 9:30</b>		<b>8:00 - 9:30</b>		<b>8:00 - 9:30</b>				
<b>Compressor Station Design Process Part 1</b>		<b>Auxiliary Systems and Equipment</b>		<b>OEM Solar Turbines #3</b>				
<i>Mitch Mazaher, PE, Basic Systems, Inc.</i>		<i>Jay Jackson and Steve Hower, EQT</i>		<i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>				
<b>9:40 - 11:10</b>		<b>9:40 - 11:10</b>		<b>9:40 - 11:10</b>				
<b>Compressor Station Design Process Part 2</b>		<b>Operating Characteristics of Reciprocating and Centrifugal Compressors</b>		<b>OEM Solar Turbines #4</b>				
<i>Mitch Mazaher, PE, Basic Systems, Inc.</i>		<i>Jay Jackson and Steve Hower, EQT</i>		<i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>				
<b>1:00 - 2:30</b>		<b>1:00 - 2:30</b>		<b>1:00 - 2:30</b>				
<b>Cost Reduction and Reliability Improvements for Reciprocating Compressors in Shale Gas</b>		<b>Design Characteristics of Prime Movers</b>		<b>OEM Solar Turbines #5</b>				
<i>Randy Dal Molin, Hoerbiger Compressor Technology</i>		<i>Jay Jackson and Steve Hower, EQT</i>		<i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>				
<b>2:40 - 4:10</b>		<b>2:40 - 4:10</b>		<b>2:40 - 4:10</b>				
<b>Engineering Efficiency Into Your Compression Facility</b>		<b>Factors Basic to Reciprocating Compr. Operation</b>		<b>OEM Solar Turbines #6</b>				
<i>Howard Murphy, EarthRes</i>		<i>Jay Jackson and Steve Hower, EQT</i>		<i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>				
<b>Thursday</b>		<b>Thursday</b>		<b>Thursday</b>				
<b>8:00 - 9:30</b>		<b>8:00 - 9:30</b>		<b>8:00 - 9:30</b>				
<b>Engineering Efficiency Into Your Compression Facility</b>		<b>Characteristics of the Primary Equipment in a Compressor Station</b>		<b>OEM Solar Turbines #7</b>				
<i>Howard Murphy, EarthRes</i>		<i>Jay Jackson and Steve Hower, EQT</i>		<i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>				
<b>9:40 - 11:10</b>		<b>9:40 - 11:10</b>		<b>9:40 - 11:10</b>				
<b>- No Session -</b>		<b>Reciprocating Compressor Comp &amp; Cylinder Operation</b>		<b>OEM Solar Turbines #8</b>				
		<i>Jay Jackson and Steve Hower, EQT</i>		<i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>				

OEM BHGE HSR	OEM CAT
Room 309	Room 310
<b>Tuesday</b>	<b>Tuesday</b>
1:00 - 2:30	1:00 - 2:30
<b>GE Waukesha Engine Conversions, Modifications and Upgrades</b>	<b>CAT Engine Electronics</b>
	<i>Matt Curry</i>
2:40 - 4:10	2:40 - 4:10
<b>GE Waukesha ESM1, ESM2 Overview / Troubleshooting</b>	<b>CAT G3600 A4 Introduction</b>
<i>Ryan Rudnitzki, GE Power</i>	<i>Scott Double</i>
<b>Wednesday</b>	<b>Wednesday</b>
8:00 - 9:30	8:00 - 9:30
<b>Product Overview Models/Frames</b>	<b>G3600 / G3500 Gas Compression Open forum</b>
<i>Joseph Mares, Baker Hughes a GE Company</i>	<i>Scott Double &amp; Matt Curry</i>
9:40 - 11:10	9:40 - 11:10
<b>Gas Compression Fundamentals</b>	<b>CAT G3600 A4 Introduction</b>
<i>Joseph Mares, Baker Hughes a GE Company</i>	<i>Scott Double</i>
1:00 - 2:30	1:00 - 2:30
<b>Lubrication Requirements</b>	<b>CAT GERP</b>
<i>Joseph Mares, Baker Hughes a GE Co.</i>	<i>Matt Curry</i>
2:40 - 4:10	2:40 - 4:10
<b>General Maintenance / Joseph Mares, Baker Hughes</b>	<b>CAT G3600A3 / A4Tuning</b>
<i>*Also see General Interest III, 2:40pm</i>	<i>Scott Double</i>
<b>GE Waukesha Product Update</b>	
<b>Thursday</b>	<b>Thursday</b>
8:00 - 9:30	8:00 - 9:30
<b>Trouble Shooting</b>	<b>CAT Engine Installation / Cooling System</b>
<i>Joseph Mares, Baker Hughes a GE Company</i>	<i>Scott Double</i>
9:40 - 11:10	9:40 - 11:10
<b>Commissioning &amp; Start up/Evals</b>	<b>G3500 / G3600 Open Forum</b>
<i>Joseph Mares, Baker Hughes a GE Company</i>	<i>Scott Double &amp; Matt Curry</i>