

AUXILIARY EQUIPMENT / FILTRATION	COMPRESSOR MAINTENANCE	ELECTRICAL AND IGNITION EQUIPMENT
Room 323	Room 324	Room 325
Tuesday	Tuesday	Tuesday
1:00 - 2:30 Natural Gas & Liquid Filtration Applications <i>Joe Odle PECOFacet</i>	1:00 - 2:30 Compressor Theory <i>Patrick Taylor, Hoerbiger</i>	1:00 - 2:30 Ignition Systems ROUNDTABLE DISCUSSION <i>Michael Porter, Paul McHenry, Hoerbiger/Altronic Pat Runnels, Darrell Schmitt, FW Murphy; Robert Virchow, Mark Skidmore, Motortech</i>
2:40 - 4:10 Marcellus/Utica Gas & Liquid Equipment Solutions <i>Sam Singleton, PECOFacet</i>	2:40 - 4:10 Recip Compressor Packing, Vents and Drains <i>Nate Baggs, Ariel Corp.</i>	2:40 - 4:10 Spark Plugs & Ignition Accessories <i>Ken Blanchard, Stitt / Charles Chewning, Champion / Alain LeFloch, BG Services</i>
Wednesday	Wednesday	Wednesday
8:00 - 9:30 Benefits of Varying Fan Speed on Coolers <i>Gene Kritzberger, Voith</i>	8:00 - 9:30 Recip Compressors, Condition Monitoring <i>John Kingham, GE Oil & Gas</i>	8:00 - 9:30 Safety Instrumented Systems Solutions for SIL Compliance <i>Scott Pierce, United Electric Controls</i>
9:40 - 11:10 Water Bath Heaters <i>Tim Oneal, ETI- a John Zink Co.</i>	9:40 - 11:10 Pulsation Control; Past, Present, Future <i>Roy Houston, ACI Services, Inc.</i>	9:40 - 11:10 EICS - Engine Integrated Control System <i>Pat Runnels, Darrell Schmitt, FW Murphy</i>
1:00 - 2:30 Relief Valve Operation <i>Guy Unger, Mercer Valve</i>	1:00 - 2:30 Compressor Maintenance Frames & Components ROUNDTABLE DISCUSSION <i>Ariel Corp/GE; DR/Siemens/Potemkin Industries/ Michael Baker Int'l/Hoerbiger/ACI Services, Inc./EQT</i>	1:00 - 2:30 Modern PLC Controllers and Control Philosophy <i>Craig Stares, CS&S Solutions</i>
2:40 - 4:10 Natural Gas & Liquid Filtration Applications <i>Joe Odle PECOFacet</i>	2:40 - 4:10 Compressor Maintenance Cylinders & Components ROUNDTABLE DISCUSSION <i>Ariel Corp/GE; DR/Siemens/Potemkin Ind/ Michael Baker Int'l/Hoerbiger/ACI Svcs, Inc./EQT</i>	2:40 - 4:10 Generator System Design Considerations <i>Chad Vogelsang, Waukesha-Pearce Industries</i>
Thursday	Thursday	Thursday
8:00 - 9:30 Benefits of Varying Fan Speed on Coolers <i>Gene Kritzberger, Voith</i>	8:00 - 9:30 Compressor Value Short Course Part 1 <i>Patrick Taylor, Hoerbiger</i>	8:00 - 9:30 Instrumentation & Controls Troubleshooting: Part 1 <i>Raymond Carr, FW Murphy</i>
9:40 - 11:10 Marcellus/Utica Gas & Liquid Equip. Solutions <i>Sam Singleton, PECOFacet</i>	9:40 - 11:10 Compressor Value Short Course Part 2 <i>Patrick Taylor, Hoerbiger</i>	9:40 - 11:10 Instrumentation & Controls Troubleshooting: Part 2 <i>Raymond Carr, FW Murphy</i>

ENVIRONMENTAL HEALTH AND SAFETY	GAS ENGINE MAINTENANCE	GAS PROCESSING
Room 326	Room 327	Room 328
Tuesday	Tuesday	Tuesday
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
Hazards with Storage Tanks / Safe Solutions in Operations <i>Brandon Bajek, ECI</i>	Cam Timing and Gas Valves <i>Joe McCluskey; Bill Seymour, GE Oil & Gas</i>	Flares / Thermal Oxidizers <i>Mike Riddell, RMS Engineers</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
EPA's Emission Standards for Stationery Engines <i>Melanie King, EPA</i>	Turbo, Blowers, Scavenging/Emissions Technology <i>Mitch Opat, Archrock and Nick Brumbaugh, GE Oil & Gas</i>	Profire Igniters & Burner Systems <i>Tony Brown, Waukesha-Pearce Industries (WPI)</i>
Wednesday	Wednesday	Wednesday
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
EPA Air Rules Affecting Engine and Compressor Maintenance <i>Patty Centofanti, Trinity Consultants</i>	Major Components: Evaluation and Maintenance ROUNDTABLE DISCUSSION <i>Bill Seymour/Nick Brumbaugh, GE Oil & Gas, Buddy Childers, TransCanada, Dusty Smith, EQT</i>	Gas Processing Systems: Types of Equipment, Operation & Sugg. Maint. ROUNDTABLE DISCUSSION <i>Terry Nelson, WPI, Tony Brown, WPI, Mike Riddell, RMS Engineers</i>
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
Emission Testing - Natural Gas Recip Engines in Compressor Stations <i>Ryan Hoffman, EQT</i>	Major Components: Evaluation and Maintenance ROUNDTABLE DISCUSSION <i>Bill Seymour/ Nick Brumbaugh, GE Oil & Gas, Buddy Childers, TransCanada, Dusty Smith, EQT</i>	Gas Dehydration Part I <i>Terry Nelson, Tony Brown, Waukesha-Pearce Industries (WPI)</i>
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
EPA's Emission Standards for Stationery Engines <i>Melanie King, EPA</i>	Engine Balancing <i>Greg Knight, TransCanada</i>	Gas Dehydration Part II <i>Terry Nelson, Tony Brown, Waukesha-Pearce Industries (WPI)</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
Gas Turbines: Emissions Technology, Emissions Signature and Air Permitting <i>Leslie Witherspoon, Solar Turbines</i>	Foundations and Grout <i>Scott Vercoe, Energy Tech Systems and Jay Greer, Iron Horse</i>	Gas Dehydration Part III <i>Terry Nelson, Tony Brown, Waukesha-Pearce Industries (WPI)</i>
Thursday	Thursday	Thursday
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
Exhaust Cond. Tech. to Prevent Sulfur Poisoning on Methane... <i>Robin Hu, DCL International, Inc.</i>	Preventative/Predictive Maintenance <i>David O'Kelly, Michael Baker International</i>	Gas Filters / Separation <i>Terry Nelson, Tony Brown, Waukesha-Pearce Industries (WPI)</i>
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
Improving Safety Culture: Field Representatives to Upper Mgmt. <i>Zachary Ejzak, Solar Turbines</i>	Journal Bearings <i>Joe McCluskey, GE Oil & Gas</i>	

GAS TURBINES & CENTRIFUGAL COMPRESSOR	GENERAL INTEREST 1	GENERAL INTEREST II
Room 329	Room 330	Room 333
Tuesday	Tuesday	Tuesday
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
Troubleshooting Gas Turbine & Centrifugal Gas Compressor Pkg <i>Gary Corbello, Ethos Energy</i>	Capstone Micro Turbines <i>Jerry Todd, E-Finity Distribution</i>	Compressor Vibration Short Course: Part 1-Intro to Vibration & Pulsation <i>Alex Sosnowski, Gary Maxwell, Jiten Mistry, Wood Group (formerly BETA Machinery Analysis)</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
Troubleshooting Gas Turbine & Centrifugal Gas Compressor Pkg <i>Continued</i> <i>Gary Corbello, Ethos Energy</i>	Emerson Single Screw Compressors <i>Mark Sommer, Emerson</i>	Compressor Vibration Short Course: Part 2-Vibration Sources & Solutions <i>Alex Sosnowski, Gary Maxwell, Jiten Mistry, Wood Group (formerly BETA Machinery Analysis)</i>
Wednesday	Wednesday	Wednesday
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
Increasing Turbine Life ROUNDTABLE DISCUSSION <i>Mike Baltz, Solar Turbines Glenn Mastmann, Iroquois Gas</i>	The Nature of Noise and its Control & CEGEN (Clean Energy Generation) <i>Lindsay Apland, Noise Solutions</i>	Facility Vibration: Is There a Problem <i>Alex Sosnowski, Wood Group (formerly BETA Machinery Analysis)</i>
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
Centrifugal Compressor Maintenance & Issues ROUNDTABLE DISCUSSION <i>Evan Sharbrough, Solar Turbines Glenn Mastmann, Iroquois Gas</i>	Troubleshooting Screw Compressors <i>Lee Levisay, The PROS Co.</i>	Methods and Challenges of Mitigating Vibration <i>Steven Crocker, Wood Group (formerly BETA Machinery Analysis)</i>
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
Dry Gas Seals 101 <i>Christopher Auzenne, Flowsolve</i>	Proper Tensioning and Torqueing <i>Mark Miller, Bolttech Mannings</i>	Pipeline Integrity and Inspection Explained <i>Robert Squair, IRIS NDT</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
Dry Gas Seal Troubleshooting & Contamination Prevention <i>Christopher Auzenne, Flowsolve</i>	Varying the Cooler's Fan Speed on Compressor Packages <i>Gene Kritzberger, Voith Turbo</i>	Pipe Strain and the Fit-up Challenges with Compressor Packages <i>Gary Maxwell, Wood Group (formerly BETA Machinery Analysis)</i>
Thursday	Thursday	Thursday
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
Capstone Micro Turbines Maint. & Field Technician Course <i>Ryan Wilkins, E-Finity</i>	Reciprocating Compressor Performance Software <i>Dwayne Hickman, ACI Services</i>	
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
Fire & Gas Detection for Turbine and Compressor Sets <i>Ken Salmen, Salmen Tech Co.</i>	Adv. Technologies - Remote Turbomachinery Fleet Mgmt <i>Chris Banchemo, Solar Turbines</i>	

GENERAL INTEREST III	LUBRICATION & FILTRATION	PIPELINE VALVE & ACTUATION MAINTENANCE
Room 334		Allegheny Overlook
Tuesday	Tuesday	Tuesday
1:00 - 2:30 Performance Control Devices Short Course, Part I <i>Tyler Clark, Kristen Gilcher, Joe Mosley, ACI Services, Inc.</i>		1:00 - 2:30 Ball Valve Basics <i>Tim Northrup, Walt Elmquist, Northrup Equipment</i>
2:40 - 4:10 Performance Control Devices Short Course, Part II <i>ACI Services, Inc.</i>		2:40 - 4:10 Ball Valve Maintenance and Field Practical Troubleshooting <i>Joe Pirkl, Sealweld USA</i>
Wednesday	Wednesday	Wednesday
	8:00 - 9:30 Stationary Natural Gas Engine & Compressor Lubrications <i>Benjamin A. Briseno, CITGO</i>	8:00 - 9:30 DOT Critical Valve Inspection and What's New ROUNDTABLE DISCUSSION <i>Joe Pirkl, Sealweld US, Tim Northrup, Walt Elmquist, Northrup Equipment, Chad Niesner, CSN Solutions</i>
	9:40 - 11:10 Cylinder & Packing Lubrication Optimization ROUNDTABLE DISCUSSION <i>Walter Sloan, Brian Sloan, CJ Sloan, Sloan Lubrication</i>	9:40 - 11:10 Scotch Yoke Actuators <i>John Brown, John Ullrich, TQT (Texas Quarter Turn)</i>
	1:00 - 2:30 Force Feed Lubrication Systems for Engines and Compressors <i>Matt McCarthy, Sloan Lubrication</i>	1:00 - 2:30 Rotary Vane Actuator <i>Robbie Broussard, TransCanada Pipeline</i>
2:40 - 4:10 Diesel & Gas Compression Engine Damper Service <i>Aaron Neyman, Vibrattech TVD</i>		2:40 - 4:10 Actuator Maintenance and Troubleshooting <i>Robbie Broussard, TransCanada Pipeline John Brown, John Ullrich, TQT</i>
Thursday	Thursday	Thursday
8:00 - 9:30		8:00 - 9:30 Plug Valve Basics <i>Chad Niesner, CSN Solutions</i>
9:40 - 11:10	9:40 - 11:10 Force Feed Lubrication Systems for Engines and Compressors <i>Matt McCarthy, Sloan Lubrication</i>	9:40 - 11:10 Plug Valve Maintenance and Field Practical Troubleshooting <i>Chad Niesner, CSN Solutions</i>

TECHNICAL AND ENGINEERING	ENTRY LEVEL COMPRESSOR STATION OPERATOR TRAINING - \$350	OEM SOLAR TURBINES
Room 336	Room 335	Room 331
Tuesday	Tuesday	Tuesday
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
Electrical Hazardous Area Classification <i>George Samo and Andrew Manski, EQT</i>	Compressor Stations and Their Functions	OEM Solar Turbines #1 <i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
Compressor Station Control System Design <i>Chuck Huizenga and Ryan Fitzgerald, Basic Systems, Inc.</i>	Compressor Station Equipment and Yard Piping	OEM Solar Turbines #2 <i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>
Wednesday	Wednesday	Wednesday
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
Compressor Station Design Process Part 1: Facility Engineering <i>Mitch Mazaher, PE, Basic Systems, Inc.</i>	Auxiliary Systems and Equipment	OEM Solar Turbines #3 <i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
Compressor Station Design Process Part 2: Control Systems <i>Mitch Mazaher, PE, Basic Systems, Inc.</i>	Operating Characteristics of Reciprocating and Centrifugal Compressors	OEM Solar Turbines #4 <i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>
1:00 - 2:30	1:00 - 2:30	1:00 - 2:30
Compressor Station Facility Construction <i>Damon Singleton, Bi-Con Services, Inc.</i>	Design Characteristics of Prime Movers	OEM Solar Turbines #5 <i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>
2:40 - 4:10	2:40 - 4:10	2:40 - 4:10
Cost Reduction and Reliability Improvements for Reciprocating Compressors in Shale Gas <i>Randy Dal Molin, Hoerbiger Compressor Technology</i>	Factors Basic to Reciprocating Compr. Operation	OEM Solar Turbines #6 <i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>
Thursday	Thursday	Thursday
8:00 - 9:30	8:00 - 9:30	8:00 - 9:30
	Characteristics of the Primary Equipment in a Compressor Station	OEM Solar Turbines #7 <i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>
9:40 - 11:10	9:40 - 11:10	9:40 - 11:10
	Reciprocating Compressor Comp & Cylinder Operation	OEM Solar Turbines #8 <i>Mike Baltz and Evan Sharbrough, Solar Turbines</i>

OEM GE WAUKESHA HSR COMPRESSORS	OEM CAT
Room 332	Room 338
Tuesday	Tuesday
1:00 - 2:30	1:00 - 2:30
GE Waukesha Engine Conversions, Modifications and Upgrades	CAT G3500ULB / J Maintenance / Electronics Part 1
<i>Ryan Rudnitzki GE Distributed Power</i>	<i>Monte Creger / CAT Factory</i>
2:40 - 4:10	2:40 - 4:10
GE Waukesha Product Update	CAT G3500ULB / J Electronics Part 2
<i>Chris Kipp, GE Distributed Power</i>	<i>Monte Creger / CAT Factory</i>
Wednesday	Wednesday
8:00 - 9:30	8:00 - 9:30
Product Overview Models/Frames	CAT G3500ULB / J Troubleshooting / Engine Tuning
<i>Joseph Mares, GE Oil & Gas</i>	<i>Monte Creger / CAT Factory</i>
9:40 - 11:10	9:40 - 11:10
Gas Compression Fundamentals	G3600A3 Maintenance / Engine Electronics
<i>Joseph Mares, GE Oil & Gas</i>	<i>Monte Creger / CAT Factory</i>
1:00 - 2:30	1:00 - 2:30
Lubrication Requirements	CAT G3600A3 Electronics / Troubleshooting
<i>Joseph Mares, GE Oil & Gas</i>	
2:40 - 4:10	2:40 - 4:10
General Maintenance	CAT G3600A3 Tuning
<i>Joseph Mares, GE Oil & Gas</i>	<i>Monte Creger / CAT Factory</i>
Thursday	Thursday
8:00 - 9:30	8:00 - 9:30
Trouble Shooting	Intro CAT G3600A4 Part 1
<i>Joseph Mares, GE Oil & Gas</i>	<i>Monte Creger / CAT Factory - Scott Double Cleveland Brothers</i>
9:40 - 11:10	9:40 - 11:10
Commissioning & Start up/Evals	CAT G3600A4 Electronics
<i>Joseph Mares, GE Oil & Gas</i>	<i>Monte Creger / CAT Factory - Scott Double Cleveland Brothers</i>