

Monday, Sept. 17, 8:30 – 10:00 AM

OPENING SESSION



Enhancing Plant Profitability and Sustainability
Rod Smith, Publisher, Smith Onandia Communications



Presentation by
Dana Bolton, Vice President, Customer Solutions, ComEd



Structuring a Firm Able to Audit Compressed Air, Vacuum and Cooling Systems
Chris Gordon, President & CEO, Blackhawk Equipment



CAGI: Working Together to Serve You Better as the United Voice of the Compressed Air Industry
Frank Mueller, President, Compressed Air & Gas Institute



Gaining Support to Implement More Energy Projects
Leslie Marshall, Corporate Energy Engineer Lead, General Mills

BEST PRACTICES

2018 EXPO SEPTEMBER 17-19 CHICAGO O'HARE, IL

COMPRESSED AIR / VACUUM / COOLING

CABPEXPO.COM

THE INAUGURAL 3-DAY CONFERENCE & FREE EXPO

Where INDUSTRIAL Energy Managers, Utility Incentive Programs and System Assessment/Technology Experts Share Plant Utility "Best Practices."

Limited Hotel Space!
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cabpexpo.com

4 Conference Tracks

Track 1: Compressed Air Supply Strategies

Track 3: Blower & Vacuum Optimization

Track 2: Compressed Air Demand Reduction

Track 4: Cooling Systems & Energy Management

*All four tracks include system training Fundamentals for Sales Engineers/Utility Reps

TUESDAY, SEPTEMBER 18 8:00 AM – 9:30 AM: PLENARY SESSION



Energy Management
Thomas Mort, Principal, Thomas Mort Consulting, Former Archer Daniels Midland Energy Director



Compressed Air Heat Recovery Projects
Joe Maney, Engineering Project Manager, NTN Bearings-Elgin



Prioritizing Reliability & Efficiency in a Compressed Air System
Kurt Kniss, Energy/Reliability Engineer, Shaw Industries



Leveraging ENERGY STAR® Industrial Tools & Partnerships
Walt Tunnessen, National Program Manager, ENERGY STAR® for Industry



Driving Down Compressed Air, Chilled Water and Vacuum Demand
Doug Barndt, Manager Demand Side Energy & Sustainability, Ball Beverage Packaging

CO-SPONSORS



ComEd Energy Efficiency Program

NETWORKING EVENTS

WELCOME RECEPTION

Sunday, September 16, 6-8 pm, Balmoral Ballroom, Crowne Plaza Hotel & Conference Center



MONDAY NIGHT FOOTBALL AT JOE'S LIVE!

Just a 5 minute walk from the EXPO! Join us Monday, September 17th at 6:30 pm, after the EXPO, for the Chicago Bears Home Opener against the Seattle Seahawks!

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BEST PRACTICES CONFERENCE AGENDA*

TRACK 1	TRACK 2	TRACK 3	TRACK 4
MONDAY, SEPTEMBER 17 10:15 AM – 12:15 PM: SESSION #1			
<p>COMPRESSED AIR QUALITY SPECIFICATIONS & COMPLIANCE <i>Chair: Phil Kruger, Vice President, Harris Equipment</i> Using ISO 8573.1 to Specify Safe Quality Food (SQF) Compliant Compressed Air Phil Kruger, Vice President, Harris Equipment Testing, Monitoring & Documenting Procedures for Compressed Air Quality Ruby Ochoa, President, Trace Analytics Auditing Against the Compressed Air Requirement LeAnn Chuboff, Vice President of Technical Affairs, SQFI Compressed Air Quality Monitoring Including Dewpoint and Oil Vapor Content Joe Fecko, Midwest Regional Sales Manager, BEKO Technologies</p>	<p>BEST PRACTICES FOR COMPRESSED AIR LEAK MANAGEMENT <i>Chair: Brad Taylor, Sales Manager, Fluid-Aire Dynamics</i> Managing Artificial Demand & Leakage Brad Taylor, Sales Manager, Fluid-Aire Dynamics Tabulating Costs Associated with Compressed Air Leaks; Selling to management Ron Marshall, Chief Auditor, Marshall Compressed Air Consulting Compressed Air Leak Repair Process Mike Simms, Corporate Energy Engineer Lead, General Mills Chicago Leak Elimination Project Case Study: Leveraging ComEd Incentives ComEd Representative</p>	<p>WASTEWATER AERATION BLOWER OPTIMIZATION <i>Chair: Tom Jenkins, President, JenTech Inc.</i> Understanding Aeration Blower Control Efficiency Tom Jenkins, President, JenTech Inc. Blower System Integration for Wastewater Aeration Applications Stephen Horne, Blower Product Manager, Kaeser USA Fundamentals of Different Aeration Blower Technologies John Conover, Atlas Copco Presentation 4 Speaker to be Announced</p>	<p>WHY ENERGY MANAGEMENT IS IMPORTANT AND WHAT ENERGY STAR PARTNERS ARE DOING <i>Chair: Melissa Hulting, Environmental Scientist, ENERGY STAR for Industry, US EPA Region 5 (Great Lakes Region)</i> Building an Energy Program at Olin Brass Jim Kabitzke, Engineering Team Manager, Olin Brass Energy Management and Compressed Air Strategies Jon Odisho, Energy Manager, Fiat Chrysler Automotive Group Presentation 3 Speaker to be Announced Presentation 4 Speaker to be Announced</p>
MONDAY, SEPTEMBER 17 1:30 PM – 2:30 PM: TREASURE HUNT WORKSHOP #1			
<p>14 Proven Compressed Air Treasure Hunt Projects Frank Moskowitz, Senior Auditor, Atlas Copco</p>	<p>Missed Compressed Air Demand-Side Opportunities: Venturi Vacuum Generators, AODD Pumps, Enclosure Cooling Hank van Ormer, Founder, Air Power USA</p>	<p>Industrial Vacuum Projects for a Energy Treasure Hunt Tim Dugan, President, Compression Engineering Corp.</p>	<p>Energy Management Fundamentals Thomas Mort, Principal, Thomas Mort Consulting</p>
MONDAY, SEPTEMBER 17 2:45 PM – 4:45 PM: SESSION #2			
<p>WORKING TOGETHER AS THE UNITED VOICE OF THE COMPRESSED AIR INDUSTRY <i>Chair: Chad Larrabee, Education Committee Chair, Compressed Air & Gas Institute</i> Industry Trends in Compressed Air Efficiency Brian Freeman, Second Vice President, CAGI How to Compare Performance Claims to Ensure the Highest Efficiency Dave Prator, Immediate Past President, CAGI Quick Hits to System Optimization David Booth, System Assessment Section Member, CAGI Are You Hiring the Right Professional to Assess Your Compressed Air System? Wayne Perry, System Assessment Section Chair, CAGI</p>	<p>BLOW-OFF COMPRESSED AIR DEMAND REDUCTION PROJECTS <i>Chair: Steve Byrd, Technical Director, Air Services Inc.</i> Chicago Blow-Off Project Case Study: Leveraging ComEd Incentives Steve Byrd, Technical Director, Air Services Inc. Compressed Air Savings at Little Cost: Three Open Blowing Upgrade Techniques Justin Ramsay, Senior Energy Engineer, Energy 350 Demand Side Optimization Through Engineered Blowoff Products Lee Evans, Special Projects Engineer, EXAIR Corporation Deploying Centrifugal Blower and Air Knife Solutions Kevin Beyer, VP of Business Development, Jet Air Technologies</p>	<p>INDUSTRIAL VACUUM SYSTEM CENTRALIZATION <i>Chair: Walter See, Product Marketing Manager, Atlas Copco</i> Setpoint Control – VSD vs. Fixed Speed in Varying Demand Applications Greg Marciniak, Product Marketing Manager, Atlas Copco Reducing Demand in Industrial Vacuum Systems Tim Dugan, President, Compression Engineering Corporation Vortex Vacuum Generators: Upgrade or Replace? Jerry Zolkowski, Senior Engineer, Consumers Business Energy Efficiency Solutions Presentation 4 Speaker to be Announced</p>	<p>OPTIMIZING INDUSTRIAL CHILLED WATER SYSTEMS <i>Chair: Brett Rasmussen, Senior Energy Engineer, Nissan North America</i> How Nissan Got to 0.2 kW per Ton in their Chilled Water System Brett Rasmussen, Senior Energy Engineer, Nissan North America Leveraging the Benefits of Free-Cooling Chiller Technology Don Joyce, Chiller Sales Manager, Nano Technologies Pharmaceutical Plant Case Study on Chiller Automation Mike Flaherty, General Manager, texWorx Presentation 4 Speaker to be Announced</p>
TUESDAY, SEPTEMBER 18 9:45 AM – 11:45 AM: SESSION #3			
<p>STEPS TO ASSESS COMPRESSED AIR SYSTEM DESIGN <i>Chair: Steve Briscoe, President, Compressed Air Challenge</i> What is “The Compressed Air Challenge?” Steve Briscoe, President, Compressed Air Challenge How to Assess Your Compressed Air System – The Steps to Success Ross Orr, Instructor, Compressed Air Challenge Compressed Air Assessments – What Should You Expect to See Jeff Yarnall, Instructor, Compressed Air Challenge Air Audit Implementation/Employee Awareness Joe Ghislain, Fundamental and Advanced Instructor, Compressed Air Challenge</p>	<p>CHALLENGING COMPRESSED AIR DEWPOINT SPECIFICATIONS <i>Chair: Mark Ames, Senior Auditor, John Henry Foster</i> ISO Quality Classes and Dewpoint Measurement Techniques Juhani Lehto, Product Manager, Vaisala Fundamentals of Compressed Air Filtration & Drying Technology Randy Peccia, Product Sales Manager, Parker Monitoring to Ensure Condensate Drain Performance Jan de Bie, CEO, JORC Varying Compressed Air Dewpoint Mark Ames, Senior Auditor, John Henry Foster</p>	<p>VACUUM SYSTEM OPTIMIZATION OPPORTUNITIES <i>Chair: Tim Dugan, President, Compression Engineering Corporation</i> Water Conservation Opportunities When Optimizing Vacuum Solutions Speaker to be Announced When is a VSD Vacuum Pump the Right Selection? Speaker to be Announced Pipe Sizing, Storage and Valve Considerations in Centralized Vacuum System Design Walter See, Product Marketing Manager, Atlas Copco Presentation 4 Speaker to be Announced</p>	<p>IMPROVING ENERGY INTENSITY WITH ENERGY MANAGEMENT <i>Chair: Ken Kogut, Chapter President, Association of Energy Engineers</i> AEE – The Energy Profession and Certification – The Next Step Ken Kogut, Chapter President, Association of Energy Engineers Tools and Resources to Drive Efficiency Improvements at Your Plant Tom Wenning, Program Manager, Oak Ridge National Laboratory Driving Corporate-Wide Energy Efficiency Improvements Jay Wrobel, Technical Assistance Manager, US DOE’s Advanced Manufacturing Office Setting up an Industrial Energy Management Program Tom Pagliuco, Director of Global Energy Engineering, Allergan Pharmaceuticals</p>

BEST PRACTICES CONFERENCE AGENDA*

TRACK 1	TRACK 2	TRACK 3	TRACK 4
TUESDAY, SEPTEMBER 18 1:30 PM – 2:30 PM: TREASURE HUNT WORKSHOP #2			
<p>Compressed Air System Controls Bootcamp Tim Dugan, President, Compression Engineering Corp.</p>	<p>Missed Compressed Air Demand-Side Opportunities: Air Motors, Dust Collectors, Sandblasters & Others Hank van Ormer, Founder, Air Power USA</p>	<p>Aeration Blower Calculation Boot Camp Tom Jenkins, President, JenTech Inc.</p>	<p>How to Reduce Chilled Water Costs with an Energy Treasure Hunt Mike Flaherty, General Manager, texWorx</p>
TUESDAY, SEPTEMBER 18 2:45 PM – 4:45 PM: SESSION #4			
<p>RELIABILITY & EFFICIENCY CONSIDERATIONS WITH CENTRIFUGAL AIR COMPRESSOR INSTALLATIONS <i>Chair:</i> Kurt Kniss, Energy/Reliability Engineer, Shaw Industries</p> <p>Prioritizing Reliability & Efficiency in a Compressed Air System Kurt Kniss, Energy/Reliability Engineer, Shaw Industries</p> <p>Leveraging “Big Data” and Cloud-Based Monitoring to Deliver Ongoing Compressed Air Savings Roy Parry, National Accounts Manager, Bay Controls</p> <p>Best Practices for Centrifugal Air Compressor Operation Allen Behbehani, USA Region Sales Manager - Engineered Equipment, Ingersoll Rand</p> <p>Heat of Compression Desiccant Dryers: Proper Selection for the Right Application Chuck Henderson, Vice President, Henderson Engineering Company</p>	<p>PIPING & STORAGE FOR COMPRESSED AIR SYSTEMS <i>Chair:</i> Wayne Perry, Technical Director, Kaeser Compressors</p> <p>Piping: Materials, Pressure Drop Considerations, Velocities, Header Design and Ways to Improve Existing Systems Neil Mehlretter, Engineering Manager, Kaeser Compressors</p> <p>Turbulence: Effects on Controls and System Dynamics of Improperly Connected Piping Don van Ormer, Senior Auditor, Air Power USA</p> <p>Drains: Types, Placement in the System and Alarm Functions Speaker to be Announced</p> <p>Storage: Sizing for System Controls, Sizing for Events, Placement in the System, and Wet/Dry Storage Frank Moskowit, Senior Auditor, Atlas Copco</p>	<p>INDUSTRIAL BLOWER SYSTEM OPTIMIZATION <i>Chair:</i> Roger Blanton, Sr. Technical Manager, Howden Roots</p> <p>Understanding Blower Performance Curves Roger Blanton, Sr. Technical Manager, Howden Roots</p> <p>Dust Collector Optimization Russ Morine, Senior Auditor, The Baker Group</p> <p>Presentation 3 Speaker to be Announced</p> <p>Presentation 4 Speaker to be Announced</p>	<p>ENERGY MONITORING OF INDUSTRIAL SYSTEMS, SESSION <i>Chair:</i> Tom Johanson, Sr Energy Efficiency Program Manager, ComEd</p> <p>Energy Informatics for Manufacturing Kelly Kissock, Professor and Chair, Dept. of Mechanical Aero Engineering, University of Dayton</p> <p>Benefits of Continuous Monitoring for Compressed Air Systems Jan Hoetzel, Senior Auditor, Airleader USA</p> <p>Energy Modeling and Monitoring at Industrial Facilities Rob Travis, Territory Manager – Midwest, Cascade Energy</p> <p>The Need for KPIs and Production Data in Actionable Energy Monitoring Systems Paul Tate, Project Manager, Empowered</p>
WEDNESDAY, SEPTEMBER 19 8:00 AM – 10:15 AM: SESSION #5			
<p>MEASURING KEY PERFORMANCE INDICATORS FOR COMPRESSED AIR <i>Chair:</i> Leslie Marshall, Corporate Energy Engineer Lead, General Mills</p> <p>Accessing Cooling Water to Achieve Fully Loaded Compressed Air Costs Leslie Marshall, Corporate Energy Engineer Lead, General Mills</p> <p>Compressed Air Energy Performance Measurements Using CSA C837-16 Ron Marshall, Chief Auditor, Marshall Compressed Air Consulting</p> <p>Choosing the Right Flow Technology for Measuring Compressed Air John Hillencamp, Senior Sales Engineer, Rosemount</p> <p>Monitoring Key Performance Indicators Jan Hoetzel, Senior Auditor, Airleader USA</p>	<p>LOWERING AVERAGE PLANT PRESSURE <i>Chair:</i> Doug Barndt, Manager Demand Side Energy & Sustainability, Ball Beverage Packaging</p> <p>Lowering Average Plant Pressure to 80 psi Doug Barndt, Manager Demand Side Energy & Sustainability, Ball Beverage Packaging</p> <p>The Nuts and Bolts of Lowering Plant Pressure Chris Gordon, President & CEO, Blackhawk Equipment</p> <p>Lowering Pressure: Demand-Side Solutions Jon Jensen, SMC Energy Corporation</p> <p>Challenging Flow & Pressure Specifications by Monitoring Menno Verbeek, Sales Manager Americas, VPIstruments</p>	<p>VACUUM SYSTEM FUNDAMENTALS IN INDUSTRIAL APPLICATIONS <i>Chair:</i> Jason Costigan, Product Manager, Gardner Denver</p> <p>A Rapid Review of Vacuum Pump Types and Typical Applications Jason Costigan, Product Manager, Gardner Denver</p> <p>ACFM, SCFM, Boyle’s Law and Other Vacuum Fundamentals Walter See, Product Marketing Manager, Atlas Copco</p> <p>Vacuum System Optimization Through Filtration & Separation Clint Browning, Vice President Sales & Marketing, Solberg Manufacturing</p> <p>Presentation 4 Speaker to be Announced</p>	<p>PROCESS COOLING OPTIMIZATION <i>Chair:</i> Thomas Mort, Principal, Thomas Mort Consulting</p> <p>Air Compressor Lubricant Heat Recovery Project for Bus Station Showers Bruce Williams, Sales Manager, Hydrothrift</p> <p>Tuning Chilled Water System for Demand Management Opportunities Thomas Mort, Principal, Thomas Mort Consulting</p> <p>Presentation 3 Speaker to be Announced</p> <p>Presentation 4 Speaker to be Announced</p>
WEDNESDAY, SEPTEMBER 19 10:15 AM – 12:15 PM: SESSION #6			
<p>COMPRESSED AIR MANAGEMENT SYSTEMS <i>Chair:</i> Andy Poplin, Corporate Sales Manager, Atlas Machine</p> <p>A Review of Compressed Air Management Systems Andy Poplin, Corporate Sales Manager, Atlas Machine</p> <p>Compressed Air Automation for Energy Efficiency and Reliability Lou York, Director, Case Controls</p> <p>Case Study: Monitoring Flow & Pressure Leads to Energy Savings Randy Olsen, Senior Auditor, Dakota Fluid Power</p> <p>Preventing Data Overload with IIoT Josh Wamser, President, Industrial Compressor Solutions</p>	<p>COMPRESSED AIR SYSTEM MAINTENANCE AND LUBRICANTS <i>Chair:</i> Loran Circle, Circle Training & Consulting</p> <p>Lubricated Rotary Screw & Rotary Vane Preventive Maintenance Loran Circle, Circle Training & Consulting</p> <p>Oil Free Rotary Screw Compressor Maintenance Speaker to be Announced</p> <p>Centrifugal Compressor Maintenance Procedures Speaker to be Announced</p> <p>Proper Air Compressor Lubrication Maintenance Dan Sandler, Marketing Manager, ISEL Inc.</p>	<p>PRESENTATION TITLE TO BE ANNOUNCED <i>Chair:</i> to be Announced</p> <p>Presentation 1 Speaker to be Announced</p> <p>Presentation 2 Speaker to be Announced</p> <p>Presentation 3 Speaker to be Announced</p> <p>Presentation 4 Speaker to be Announced</p>	<p>CHILLER PLANT AUTOMATION AND MAINTENANCE <i>Chair:</i> to be Announced</p> <p>Presentation 1 Speaker to be Announced</p> <p>Presentation 2 Speaker to be Announced</p> <p>Presentation 3 Speaker to be Announced</p> <p>Presentation 4 Speaker to be Announced</p>

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- Cooling Systems

Registration

Conference registration includes, within the specified day, workshop and conference tracks, meals and expo hall access. **Register at www.cabpexpo.com**

Before 7/29/18 After 7/29/18

Single Day Conference Pass \$290 \$350

- September 17 Workshops, Lunch, Opening Session, Expo Hall & Evening Reception
- September 18-19 Breakfasts, Lunch, Conference Sessions, Expo Hall & Evening Reception

Full Conference Pass \$550 \$675

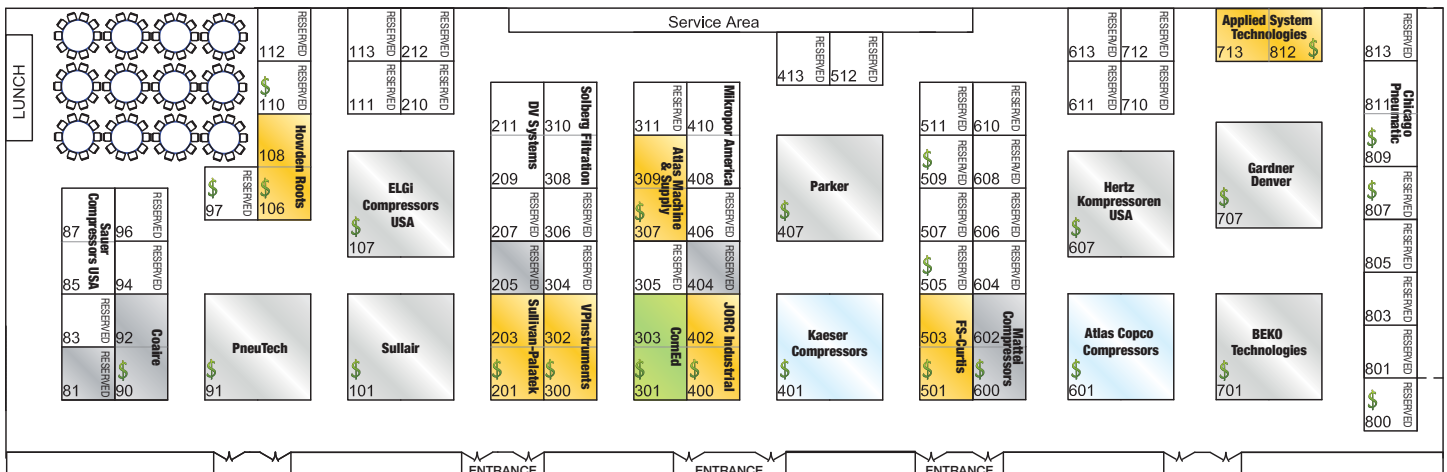
- September 17-19 all functions and meals

2018 EXPO HALL OPEN HOURS FREE

- Monday, September 17, 12:00 PM – 6:00 PM
- Tuesday, September 18, 12:00 PM – 7:00 PM
- September 17 or 18 Lunch Tickets \$40 each

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FREE 2-DAY EXPO Sept. 17, 12-6 PM Sept. 18, 12-7 PM



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Exhibitors

81 Bay Controls	110 ENERGY STAR	300 VPInstruments	404 CDI Meters	600 Mattei Compressors	707 Gardner Denver
83 Ultrachem	111 EnerAir Solutions	301 ComEd Energy Efficiency Program	406 SPX FLOW	601 Atlas Copco Compressors	710 HydroThrift
85 Sauer Compressors USA	112 AABC Commissioning Group	304 Isel	407 Parker	604 Trace Analytics	712 Edwards Vacuum
90 Coaire	113 Association of Independent Compressor Distributors	305 Air Services Company	408 Mikropor America	606 SA Performance	713 Applied System Technologies
91 PneuTech	201 Sullivan-Palatek	306 Van Air Systems	413 MTA USA	607 Hertz Kompressoren USA	800 John Henry Foster
94 Fluid-Aire Dynamics	207 Airleader	307 Atlas Machine & Supply	501 FS-Curtis	608 E+E Elektronik	801 Sahara Air Products
96 Case Controls	209 DV Systems	308 Solberg Filtration	505 Compressed Air & Gas Institute	610 ENMET	803 Aircom USA
97 TRI Air Testing	210 Edgetech Instruments	311 nano-purification solutions	507 Busch Vacuum Pumps & Systems	611 Leybold USA	805 DirectAIR
101 Sullair	212 Compressed Air Challenge	400 JORC Industrial	509 Edmac	613 Association of Energy Engineers	807 Brabazon Pump, Compressor & Vacuum
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