



CONFERENCE & EXHIBITION

# ATTEND. LEARN. APPLY.

*At the 17th annual Reliable Plant Conference & Exhibition*

in Louisville, Kentucky, you can expect to gain the tools, strategies and support you need to achieve and maintain a serious competitive edge.

# APRIL 5-7 2016 LOUISVILLE



“...a wealth of products and knowledge all in one place...”

- JACOB WILCOX, ROQUETTE AMERICA INC.



## NEW FOR 2016

- ▶ 75 + Sessions
- ▶ 20 + Case Studies
- ▶ 7 + Networking Events
- ▶ Jim Beam Distillery Tour
- ▶ 90 + Exhibitors
- ▶ New Certificate Programs
- ▶ 6 Workshops
- ▶ Professional Certification Exams

For more information visit [Conference.ReliablePlant.com](http://Conference.ReliablePlant.com)



Beautiful Louisville!



CONFERENCE & EXHIBITION

## WHY THIS EXPERIENCE IS FOR YOU

The *Reliable Plant Conference & Exhibition* is designed to help you find the solutions your machines, staff and leaders need.

Over three days, you'll meet industry leaders, exhibitors and fellow attendees as you discuss case studies and sessions, sample products in the exhibit hall and forge new business relationships. You'll learn key aspects of reliability that are new to you or applied in innovative ways. You'll see leadership and implementation strategies for making lasting changes.

Once the conference ends, you'll return to your workplace, but Reliable Plant is hardly over.

You'll apply what you've learned, perhaps implement a new product you sampled and start seeing results. Within three months of attending Reliable Plant, **76%** of surveyed 2015 attendees said they were able to make changes like these in their workplace. **One-third of them were already seeing results.**

It all starts with something – or a few things – someone learned at Reliable Plant. Be that person for your plant. Turn three days into years of continued improvement and thousands, even millions, in savings.

# SCHEDULE AT-A-GLANCE

### Monday, April 4

- Onsite Registration Opening
- Pre-conference Workshops

### Tuesday, April 5

- Opening Keynote
- Exhibit Hall Grand Opening
- Conference Sessions
- Meet and Greet Reception

### Wednesday, April 6

- Prayer Breakfast
- Conference Sessions
- Exhibit Hall Open
- Networking Reception
- Jim Beam Distillery Tour

### Thursday, April 7

- Conference Sessions
- Giveaways in Exhibit Hall
- Post-conference Workshops



## WHY ATTEND?

Reliable Plant covers every facet of reliability, industrial lubrication and oil analysis in one three-day event. Realize immediate bottom-line results by obtaining real-world information and processes that you can put into practice as soon as you get home.

- 1 ▶ Improve your plant's reliability – learn about real-world deployment processes to sustain your plant's reliability program
- 2 ▶ Develop powerful connections – exchange ideas with peers, share best practices and expand professional relationships
- 3 ▶ Stay up-to-date on new technologies – make your job easier
- 4 ▶ Become more valuable to your company – learn processes to reduce downtime and control costs
- 5 ▶ Discover solutions that you can implement right away – address specific issues
- 6 ▶ Save money by deducting conference expenses on your taxes – *yes, this is a valid reason to attend!*
- 7 ▶ Find new customers, suppliers and resources – generate leads and develop partnerships
- 8 ▶ Attend specialized half-day workshops – offered before AND after the conference
- 9 ▶ Share what you learn with co-workers – technical papers and presentations provided to you on CD
- 10 ▶ Invest in your company – capture information and apply what you've learned on the job

## WHO ATTENDS?

As a professional in machinery lubrication, oil analysis and reliability, you value best practices to ensure bottom-line results. Whether you're entry-level or a seasoned member of your plant's management team, you'll benefit from the comprehensive schedule of sessions, case studies and peer interactions. Make plans now to attend Reliable Plant 2016 to network with and gather information from the following attendees:

Asset Care Planners  
CBM Coordinators and Specialists  
Chief Engineers  
Design Engineers  
Engineers & Engineering Managers  
Facility Managers  
Hydraulic Specialists  
Industrial Maintenance Supervisors  
Industrial Mechanics  
Infrared/Vibration Technicians  
Lab Managers

Lube Analysts  
Lubrication Technicians & Specialists  
Machinery Engineers  
Maintenance Engineers & Managers  
Maintenance Planners  
Managers of Maintenance and Reliability  
Mechanical Engineers  
Operations Managers  
PdM Analysts and Specialists  
Planners and Schedulers  
Plant Managers & Engineers

Project Leaders  
Quality Managers  
Reliability Coordinators  
Reliability Engineers  
Reliability Team Leaders  
Reliability Technicians  
Safety Managers and Directors  
Senior Reliability Engineers  
TPM Coordinators and Facilitators  
....and more

"As a maintenance supervisor, I'm in charge of our lubrication program. This show has really opened my eyes to a lot of opportunities I can implement immediately at our facility."

– MARK BOWEN, ABBOTT NUTRITION

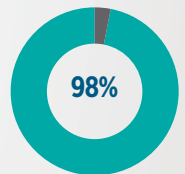
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percent

**SATISFACTION  
GUARANTEE!**

### SATISFACTION GUARANTEE

Noria proudly stands behind Reliable Plant 2016. If you're not satisfied with the information and insights you gain at this event, we'll refund 100% of your paid registration fee.

98% indicated that Reliable Plant met or exceeded their overall expectations.



100%

100% of attendees at last year's show said they learned something new among all the products and services in the exhibit hall.





Dan Rockwell is a Leadership Freak.

## KEYNOTE DETAILS

Catch Dan Rockwell's speech on Tuesday, April 5th, 8:00–9:30 a.m. in the Cascade C Ballroom.

## OPENING GENERAL SESSION

### FEATURED KEYNOTE – Dan Rockwell

Dan Rockwell is a sought-after leadership coach, trainer and presenter who is best known for his highly recognized blog, *Leadership Freak*, which he began writing in 2010. Millions of leaders in every country on the globe gain encouragement and insight from his daily articles.

Leadership Freak has been recognized by the Center for Management & Organizational Excellence as the most socially shared leadership blog in the world for three years running. More than 350,000 subscribers have opted into Dan's social media channels.

Rockwell's keynote entitled "Finding Fire" describes how one individual in a small community turned his desire to make a difference into a global organization that changed the world. Exploring how this leader overcame obstacles, built the right team and pursued excellence, Rockwell will illustrate to his audience that five powerful principles have the potential to invigorate leaders and transform organizations:

- How to eliminate the deadly behavior that quenches vitality.
- One unexpected word that provides lifelong challenge and opportunity to any leader.
- A simple five-step conversation that initiates forward momentum.
- Reconnect with purpose and strength to fuel vibrancy.
- Uncover the path that one lumber-yard clerk took toward leadership and global impact.

## NON-DENOMINATIONAL PRAYER BREAKFAST

Wednesday, April 6th, 2016  
7:00 a.m. – 7:50 a.m.

- Hyatt Regency – directly across from the Kentucky Convention Center
- Full, hot buffet breakfast, coffee, juices
- Opening remarks and prayer
- Inspirational keynote speaker
- Closing ceremony
- No cost, but registration is required.\*

\*Add to your conference registration

SPONSORED BY



## JIM BEAM DISTILLERY TOUR

SPONSORED BY PENTAIR

\$75 per guest

5:30 p.m. - 9 p.m. Wednesday, April 6

Be one of 50 registrants to enjoy a private, after-hours guided tour through the Jim Beam distillery, plant and facilities. Bourbon tasting and dinner are included.

### Includes:

- Round-trip transportation
- Bourbon-infused BBQ meal
- Commemorative Jim Beam gift

Limited to 50 seats (first come, first served). Make your reservation when you register.





# WIN A TRIP TO HAWAII

**ATTEND RELIABLE PLANT AND YOU COULD  
WIN A SIX-DAY TRIP FOR TWO TO HAWAII!**

**Prize Includes:**

- Round-trip airfare for two adults
- Five nights in a two-bedroom condo at the Aston Waikiki Sunset Resort
- Arrival and departure ground transportation between airport and hotel
- Admission for two adults to the Ali'i Luau Polynesian Cultural Center
  - A self-guided tour of six villages representing Tonga, Tahiti, Fiji, Aotearoa (Maori New Zealand), Samoa and Rapa Nui (Easter Island)
  - Canoe pageant
  - "Hawaiian Journey" film
  - Ali'i luau dinner buffet and performance
  - Reserved seating at evening show, "Ha: Breath of Life" featuring traditional music and fire dancing

For more information visit [Conference.ReliablePlant.com](http://Conference.ReliablePlant.com)

# NEW FOR 2016: LEADERSHIP & FUNDAMENTALS CERTIFICATE PROGRAMS

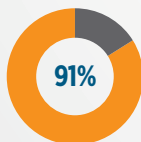
Whatever your expectations for Reliable Plant, you are guaranteed to learn something new - 100 percent of our 2015 attendees did. Why not make the most of your experience by enrolling in one of our two new certificate programs? Enrollment in either of the Leadership or Fundamentals programs will include:

- ▶ Full-conference registration
- ▶ Pre-conference workshop
- ▶ Access to the VIP lounge
- ▶ Noria books bundle
- ▶ Commemorative plaque
- ▶ Certificate of completion

"This conference was worth the time to attend. The sessions were outstanding. I enjoyed the knowledge all the speakers shared. It was valuable information. This was my first year to attend, and I have enjoyed the conference."

– JIMMIE HENRY, GE OIL AND GAS

91% of attendees said the learning sessions' content and topics were important to their company.



## LEADERSHIP CERTIFICATE PROGRAM

Reliable Plant's leadership program will put you in key sessions that will explain how to tackle problem areas and identify solutions so you can build a world-class lubrication/reliability program.

### *Workshop*

**Lubrication Excellence Essentials for Leaders**  
Jim Fitch, Noria Corporation

### *Session 1*

*(Starting the Change Conversation)*

**How to Implement a Global Reliability Program**  
Ron Reimer, Eli Lilly and Company

### *Session 2*

*(Coaching Your Team)*

**Filling the Gap: Transferring Knowledge to the Younger Workforce**  
Dave Abecunas, Predictive Service

### *Session 3*

*(Setting Metrics)*

**Metrics for Lubrication Program Success**  
Jeremy Wright, Noria Corporation

### *Session 4*

*(Creating Good Procedures)*

**Improving the Effectiveness of PMs**  
Roger Borycki, Tronox

## FUNDAMENTALS CERTIFICATE PROGRAM

If you're new in the field or feel your understanding could use some updating, Reliable Plant's fundamentals program will cover the basics of lubrication and reliability to put your career on the fast track.

### *Workshop*

**The Essential Elements of Industrial Lubrication Fundamentals**  
Wes Cash, Noria Corporation

### *Session 1*

*(Sampling and Field Testing)*

**30 Years Without an Oil Change: A Case Study**  
Brian Thorp, Seminole Electric Coop

### *Session 2*

*(Grease Fundamentals)*

**How to Determine Grease Compatibility and Why It's Important**  
Rich Wurzbach, MRG Labs

### *Session 3*

*(Filtration, Flushing and Transfer)*

**Key Components of Effective Lubricant Storage**  
Terry Harris, Reliable Process Solutions

### *Session 4*

*(Conducting Effective Inspections)*

**10 Hydraulic Reliability Checks You Probably Aren't Making**  
Hank Ayers, GPM Hydraulic Consulting

# CONFERENCE WORKSHOPS

Optimize your conference experience by attending specialized pre- and post-conference workshops. Professional development is critical in any line of work. Results show that participation in workshops ensures an enhanced conference experience. Jumpstart your learning and quantify your investment by committing to one or more of our conference workshops.



## PRE-CONFERENCE WORKSHOPS – MONDAY, APRIL 4th

### How to Diagnose Employee Performance Issues

PRE-CONFERENCE



**Chris Christenson – Noria Corporation**  
Monday, April 4, 8:00 a.m. – 11:30 a.m.

Accurately diagnosing an employee's performance can be difficult. Many times what you observe is only part of the story. This workshop will reveal the critical factors, how they influence an employee's behavior and how you should respond.

### Critical Success Factors and Benefits of Condition-based Maintenance

PRE-CONFERENCE



**Jason Tranter, Mobius Institute**  
Monday, April 4, 8:00 a.m. – 11:30 a.m.

This workshop will discuss the key elements of a condition-based maintenance program, including how to establish a new program and optimize an existing program. Learn the most effective condition monitoring techniques and precision maintenance activities.

### The Essential Elements of Industrial Lubrication Fundamentals

PRE-CONFERENCE



**Wes Cash – Noria Corporation**  
Monday, April 4, 1:00 p.m. – 4:30 p.m.

This interactive workshop provides an introduction to optimal lubrication practices. Designed for those with little technical background, it covers the common activities of a lube technician in support of a lubrication excellence program.

### Lubrication Excellence Essentials for Leaders

PRE-CONFERENCE



**Jim Fitch – Noria Corporation**  
Monday, April 4, 1:00 p.m. – 4:30 p.m.

Effective lubrication is an essential enabler to machine reliability and can yield amazing results on the bottom line. This leadership workshop will show you how to take control of reliability by reinventing your lubrication program.

## POST-CONFERENCE WORKSHOPS – THURSDAY, APRIL 7TH

### How to Achieve Maintenance Planning Excellence

POST-CONFERENCE



**Doc Palmer, Richard Palmer & Associates Inc.**  
Thursday, April 7, 1:00 p.m. – 4:30 p.m.

Maintenance planning and scheduling can dramatically improve productivity. Join Doc Palmer, author of McGraw-Hill's *Maintenance Planning and Scheduling Handbook*, as he covers not just theories and principles but the nuts and bolts of how planning and scheduling work.

### Certified Reliability Leader Workshop

POST-CONFERENCE



**Terrence O'Hanlon, Reliabilityweb.com**  
Thursday, April 7, 1:00 p.m. – 4:30 p.m.

World-class organizations recognize that success is achieved through leadership. This is especially true for reliability. Come get ideas and practical tips to engage and empower every stakeholder in your organization as a reliability leader.

# LEARNING SESSIONS

SPONSORED BY ROYAL MANUFACTURING COMPANY

## HERE'S A QUICK LOOK AT SOME OF OUR LEARNING SESSIONS:

There are more than 75 learning sessions and counting. New sessions are being added weekly. Stay up-to-date by visiting [Conference.ReliablePlant.com](http://Conference.ReliablePlant.com).

**CS** Case Studies

**LP** Leadership Program

**FP** Fundamentals Program

## 6 Key Elements for World-class Manufacturing

*Paul Bokrossy, Zimmark*

Attend this session to learn why data-driven KPIs and maintenance are powerful tools for boosting reliability, along with the six essential elements of world-class manufacturing that are borne out of excellent data and performance tracking.

## Debunking the Most Common Hydraulic Myths and Misconceptions

*Jaime Contreras, Ripipsa*

This session will address the most common hydraulic misconceptions and the problems they produce. Learn how to spot poor pressure valve adjustment, differentiate directional valves, properly use hydraulic accumulators and interpret/utilize hydraulic symbols correctly.

## A Complete Guide to Using Root Cause Analysis

*Gary Helmink, Roxane*

Root cause analysis has a bad reputation as being difficult and time-consuming. This session will reveal why this is an incorrect assumption and how using root cause analysis guarantees far-reaching benefits in reliability. Discover how you can be confident the solution you've enacted has truly solved the problem.

## Understanding the True Cost of Improper Lubrication

*Eric Rasmusson and Bill Correll, Generation Systems*

If you think there's not a direct relationship between lubrication and profitability – or you believe there is but can't define it – this session is one you must attend. Drawing on findings from leading researchers and analysts, this presentation will clarify the key link between lubrication and a company's bottom line, and how misunderstanding this link is extremely costly.

## Improving Fuel System Cleanliness to Meet New Emissions Regulations

*Scott Shafer, Caterpillar Inc.*

This session will outline the types of hard particle wear that commonly occur in high-performance fuel systems operating on dirty fuel and will detail an enhanced filtration solution to counteract these problems. If dirty fuel is an unavoidable reality in your line of work, attend this presentation to learn how to limit impurities and damage so you can get the most out of your engine.

## How the Industrial Internet is Changing Asset Management

*Matthew Wells, GE Intelligent Platforms*

Today, more and more companies are connecting their machines in order to collect and analyze data that will aid them in preventing breakdowns. This session will dive into the ways in which greater connectivity and the industrial Internet are enabling a new level of asset monitoring and accurate failure prediction. Come learn how you can harness this incredible power to drive transformative asset management, efficiency and innovation.

## Purchasing Equipment with Maintenance in Mind

*Jay Zaffino, Burns & McDonnell*

Whether it is planned or unplanned, a time will come when machines must shut down for maintenance. This session will examine how to purchase pumps with a planning mindset and reduce unplanned downtime significantly. You'll learn the steps to take during the bid, purchasing, fabrication and installation stages to help machinery maintenance go smoothly and efficiently – spelling more machine availability, productivity and profit.

## How to Interpret Particle Count Results for In-service Lubricants

*Rüdiger Krethe, OilDoc*

Sample preparation procedures can have a big influence on particle count results as well as related decisions and maintenance practices. This session will present a method of interpreting particle count results based on three steps. You will leave knowing how to combine information, get the most accurate picture of oil health and conduct excellent maintenance.

"A ton of valuable information is packed into a few days, presented by top-notch instructors. This conference is a tremendous value, and my expectations were exceeded in many ways!"

- JOHN STACEY, METSO MINERALS



## OIL ANALYSIS

### New Method for Detecting Glycol in Used Engine Oil

Roland St. Germain, VHG Labs

### How to Determine Grease Compatibility and Why It's Important

Rich Wurzbach, MRG Labs

### How to Interpret Particle Count Results of In-service Lubricants

Rüdiger Krethe, OilDoc

### How to Determine Engine Oil Quality

Tina Dasbach, Institute of Materials

### Using Linear Voltammetry to Analyze In-service Lubricants

Dave Wooton, Wooton-Consulting

### Identifying Contaminated and Mislabeled Lubricants

Pat Maggi, Cannon Instrument Co.

### How Oil Analysis Can Be Used for Lubrication Management

Bill Quesnel, WearCheck Canada

## LUBRICANT SELECTION

### When and How to Use High-performance Grease

Dr. Anoop Kumar, Royal Mfg.

### Best Practices for Selecting Lubricants

Alejandro Meza, Noria Corporation

### The Future of Food-grade Lubricants

Tyler Housel, Inolex

### The Advantages of Choosing Biodegradable Lubricants

Jim Pezoldt, BioBlend Renewable Resources

### How to Choose a High-speed Grease

Wes Cash, Noria Corporation

## CONTAMINATION CONTROL

### Moisture Contamination and Its Effect on the Remaining Useful Life of Bearings

Garrett Rowe, Arizona Instrument

### Improving Fuel System Cleanliness to Meet New Emissions Regulations

Scott Shafer, Caterpillar Inc.

### Combining Varnish-removal Technologies for Better Turbine Lubrication

Andy Sitton, Focuslab

### How to Keep Lubricants Clean Right from the Start

Jason Gerig, Chevron

### Controlling Water Contamination in Lubricants with Membrane Dehydrators

Sudip Majumdar, Compact Membrane Systems

## LUBRICATION PROGRAM MANAGEMENT

### Case Study: How to Implement a Plant-wide Lubrication Conversion

Marian Hendrickson, Leprino Foods

### How to Double the Life of Critical Equipment Through Effective Lubrication

Jeremy Wright, Noria Corporation

### How to Avoid Lubrication-caused Failures

Mike Gilliland, Whitlock Packaging

### Case Study: The Journey to Lubrication Excellence

Rodrigo Werneck, Samarco Mining

### How to Implement an Effective Lubrication Program

Alejandro Meza, Noria Corporation

### Back to the Basics, Forward to Reliability and World-class Lubrication

Suzy Hitchcock, ICML

### Metrics for Lubrication Program Success

Jeremy Wright, Noria Corporation

### Understanding the True Cost of Improper Lubrication

Eric Rasmuson and Bill Correll, Generation Systems

### The Benefits of Proactive Lubrication

Dale Jones, Allegheny Wah Chang

### Secrets for Better Compressor Lubrication

Wes Cash, Noria Corporation

### Embracing Precision Lubrication: A Case Study

Saul Cizek, Upper Occoquan Service Authority

### Manual vs. Automatic Lubrication: Which is Better?

Jeffrey Boyles, Lubrication Engineers



"I thoroughly enjoyed myself and learned a lot in the process. With a wealth of products and knowledge all in one place, it is difficult not to find something to bring back and implement for improved plant reliability."

- JACOB WILCOX, ROQUETTE AMERICA INC.

#### 4 Common Lubrication Problems and How to Fix Them

Joe Goecke, Petro-Canada

#### The Most Common Things That Destroy a Lubrication Program

Jorge Alarcon and Jesus Terradillos, Tekniker

#### LUBRICANT STORAGE AND HANDLING

##### The Importance of Proper Lubricant Storage and Labeling: A Case Study

Gene Goetz and Fallon Schmidt, Sinclair Wyoming Refining Co.

CS

##### Key Components of Effective Lubricant Storage

Terry Harris, Reliable Process Solutions

#### HYDRAULICS

##### 10 Hydraulic Reliability Checks You Probably Aren't Making,

Hank Ayers, GPM Hydraulic Consulting



#### Debunking the Most Common Hydraulic Myths and Misconceptions

Jaime Contreras, Ripipsa

#### Understanding the Requirements and Classifications of Hydraulic Fluids

Doug Sackett, Total Lubricants

#### 30 Years Without an Oil Change: A Case Study

Brian Thorp, Seminole Electric Coop

CS

#### Controlling Contamination in Hydraulic Cylinders

Tony Casassa, Aggressive Hydraulics

#### The Real Reasons Why Hydraulic Fluids Fail

Doug Muennich, RelaDyne

#### Methods for Controlling Varnish in Industrial Hydraulic Systems

Mrinal Mahapatro, Pall Corporation

#### CONDITION MONITORING

##### Condition Monitoring Mobile Fleet Assets

John Hasson, Fulton Hogan

CS

##### Identifying the Risks and Failure Modes of Electrical Systems

Alan Ross, SD Myers, and Jakub Djielski, Argonne National Laboratories

##### Using Condition Monitoring Instruments to Get the Most from Your PdM Program

Ken Piety, Azima DLI

##### Monitoring Slow-speed Bearings with Ultrasound

Adrian Messer, UE Systems

#### PLANNING AND SCHEDULING

##### Establishing a Maintenance Planning and Scheduling Program

Doc Palmer, Richard Palmer & Associates Inc.

#### No Time for Maintenance? 12 Ways to Get It Done

Jeff Shiver, People and Processes

#### RELIABILITY ENGINEERING

##### How to Implement a Global Reliability Program

Ron Reimer, Eli Lilly and Company

CS

##### The Impact of Green Technology on Equipment Reliability

Larisa Gorodetsky, Ark Manufacturing

##### How Technology Can Drive Reliability Improvement

Tom Dabbs and Rick Zinkl, DXP Enterprises

##### Reliability on a Budget: How One Person Can Make a Difference

Christopher Haught, Esco

##### How to Develop a Corporate Reliability Strategy

David Rosenthal, Reliability Strategy and Implementation Consultancy

##### Tactics to Sustain and Improve Your Reliability Program

Vlad Bacalu, AECOM

##### Case Study: How to Increase the Reliability of a Lubrication System

Mario Rupf, Kinross Gold

CS

##### Preventing Machine Failures with Precision Alignment

Pedro Casanova, Ludeca

##### Case Study: How to Start a Reliability Improvement Program

Ian Green, AV Terrace Bay

CS

##### Using a Lean Approach for Greater Machine Reliability

Paul Conley and Bryan Uncapher, SKF

Don't miss insightful case studies from these industry leaders...

CS Case studies are marked.





## MORE THAN 75 LEARNING SESSIONS AND COUNTING

### MAINTENANCE MANAGEMENT

#### How to Develop a Life-cycle Asset Management Strategy

CS

Timos Lolis, LafargeHolcim

#### Skills Assessment Testing and Remediation

Jim Fitch, Noria Corporation

#### Case Study: How to Transition from Reactive to Condition-based Maintenance

CS

Jeffrey Ng, Kimberly Clark

#### The Importance of Tactical Maintenance Leadership

CS

Abdul Alami, Alberta Government

#### 6 Key Elements for World-class Manufacturing

Paul Bokrossy, Zimmark

#### New Techniques to Fight the Maintenance Crisis

Joel Leonard, SkillTV.net

#### How to Use Effective Metrics for Better Asset Management

Scott Kelley, GeoMetric Reliability

#### Why Preventive Maintenance Will Not Solve Your Reliability Problems

Jason Tranter, Mobius Institute

#### How the Industrial Internet is Changing Asset Management

Matthew Wells, GE Intelligent Platforms

#### Purchasing Equipment with Maintenance in Mind

CS

Jay Zaffino, Burns & McDonnell

#### Filling the Gap: Transferring Knowledge to the Younger Workforce

Dave Abecunas, Predictive Service

#### Maintenance Metrics and KPIs You Should be Measuring

CS

Jay Ratliff, AssetPoint

#### Improving the Effectiveness of PMs

Roger Borycki, Tronox

#### Strategies for Overcoming Asset Management Barriers

Mark Wolfram, GenesisSolutions

#### How to Update an Asset Management Program: A Case Study

Tacoma Zach, Uberlytics, and Thomas Kurtz, Noria Corporation

#### Optimizing Your PMR Program

CS

David Hull, Holcim

#### Using PdM Technologies to Achieve Greater Reliability

CS

Nathan Southwell, Weyerhaeuser

#### Training for PMs, PMs for Training

CS

Michael Mazur, Schwan's Global Supply Chain

#### Improving Maintenance and Reliability for Wastewater Operations

CS

David Tuccio, Monroe County Pure Waters

#### The Hidden Costs in Air Compressor Operation

Matthew Kohosek, FS-Elliott

### ROOT CAUSE ANALYSIS

#### A Complete Guide to Using Root Cause Analysis

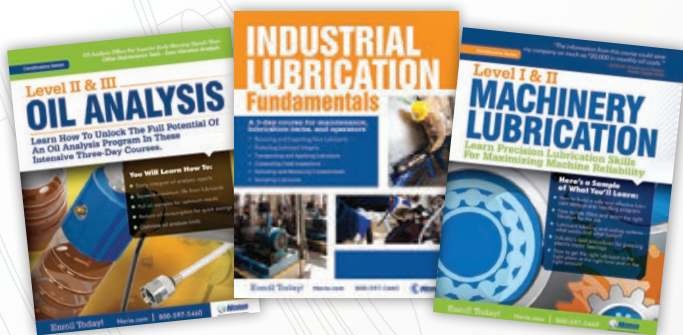
CS

Gary Helmink, Roxane

#### Using Root Cause Analysis to Break Away from Reactive Maintenance

CS

Chris Eckert, Sologic, and Bill Lyons, Holcim



## GET A FREE NORIA TRAINING COUPON

Valued at \$1,295!\*

Full-conference registration includes a \$1,295 training coupon which can be used toward Noria's lubrication or oil analysis training courses for up to one year. Use it yourself or give it to a co-worker. It's like attending the conference and getting Noria training for free!

\*Terms and Conditions: Only one coupon issued per person. Coupon is transferable within your organization and must be presented when registering for the training. Coupon is valid for Noria public training courses in the United States taking place between April 2016, and April 2017, or online courses purchased prior to April 2016. Coupons are given to full-conference (Tuesday-Thursday) attendees who pay their conference registration fee and attend the conference. Speakers and exhibitors are not eligible unless paying full-conference registration fees. Coupons may not be used for private onsite training.

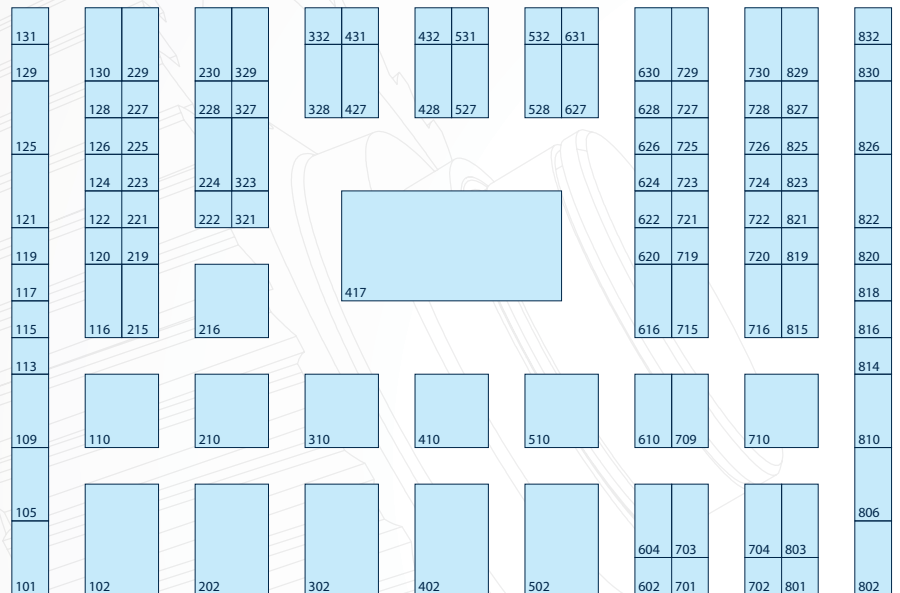
# OVER 150,000 SQUARE FEET OF EXHIBIT HALL SPACE

Make your conference experience as valuable as possible. Wander the expansive exhibit hall and discover tools and solutions among a comprehensive group of global suppliers representing various disciplines of industrial lubrication and oil analysis.

"I loved the format of learning sessions mixed with exhibit hall time. I found several products and vendors on the exhibit hall floor that I never knew existed. It is a great place to learn firsthand who the leaders in the industry are."

- KASEY DAVIS, NV ENERGY

With over 150,000 square feet of exhibit hall space, attendees can meet with more than 100 exhibitors highlighting innovative products and services over the course of three days. Unwind in the "Relaxation Station," network with colleagues during lunch breaks and receptions, gather hands-on information and generate ideas to address specific needs.



## EXHIBITORS

Sponsors shown in blue

### Air Sentry Alemite

ALS Tribology  
American Chemical Technologies Analysts, Inc.  
API Maintenance Systems  
Argo-Hytos  
Arizona Instrument LLC  
Azima DLI  
Beckman Coulter Life Sciences  
Beka Max of America, Inc.  
C.C. Jensen  
Cannon Instrument Company  
CheckFluid, Inc.  
Chemsearch Reliable Lubrication Solutions (RLS)  
Chemsearch Torrent Services  
Closed Loop Recycling  
Compact Membrane Systems  
Computrac  
Connection Technology Center  
Design Maintenance Systems, Inc.  
Dexsil Corporation  
Donaldson Company, Inc.  
Dry Hydraulics, LLC

E + E Elektronik  
Engineered Lubricants  
Esco Products, Inc.  
Fluid Technologies, Inc.  
Fluitec International  
FS-Elliott Company  
Generation Systems  
Genesis Solutions  
Gill Sensors and Controls  
GTI Predictive Technology, Inc.  
**GUARDIAN**  
Hanil Lubtec Company  
Harvard Corporation  
**Henek Fluid Purity Systems**  
HYDAC / Schroeder Industries  
**Hy-Pro Filtration**  
IMI Sensors/PCB Piezotonics  
Indiana Bottle Company  
Inpro/Seal Company  
International Council for Machinery Lubrication (ICML)  
Intertek  
**Lincoln Lubrication**  
Liquidynamics  
**Lubrication Engineers, Inc.**

Lubrication Scientifics, LLC  
Lubrigard  
Ludeca, Inc.  
**Luneta, LLC**  
Meggitt Sensing Systems  
Midland Manufacturing Company, Inc.  
Mighty Lube, USA  
Mobius Institute  
**MP Filtri USA**  
MSC Filtration Technologies  
**Noria Corporation**  
Oil Filtration Systems, Inc.  
**Oil Safe**  
OilDoc GmbH  
Orion Engineered Seals  
**Pall Corporation**  
Analytical  
Parker Hannifin Corporation  
PdMA Corporation  
Pentair Filtration Solutions  
People and Processes, Inc.  
PerkinElmer Instruments  
POLARIS Laboratories®  
Projotech Inc.  
Pruftechnik, Inc.

R&G Laboratories, Inc.  
RelaDyne, Inc.  
**Royal Mfg. Co.**  
Runningland  
**SD Myers, Inc.**  
SDT North America, Inc.  
**SKF Lubrication**  
Society for Maintenance & Reliability Professionals (SMRP)  
Specialty Manufacturing, Inc.  
**Spectro Scientific, Inc.**  
Spectronics Corporation  
Spencer Strainer Systems  
SPM Instruments, Inc.  
Stauff Corporation  
Tannas Co.  
TestOil  
The Chemours Company  
Total Specialties USA, Inc.  
Tribologik Corporation  
UE Systems, Inc.  
Universal Flow Monitors, Inc.  
VHG Labs/LGC Standards  
**Whitmore Industrial**  
**Y2K Fluid Power, Inc.**



## TRAVEL

Reliable Plant 2016 will take place in the beautiful city of Louisville, Kentucky. Conference sessions and exhibits will be held at the Kentucky International Convention Center. Specially rated rooms for attendees are available at the Hyatt Regency Louisville (located directly across from the convention center).

Visitors will have access to the exciting attractions that make Louisville a cultural linchpin of the American South, from a 100-year-old, fully functioning steamboat to the Urban Bourbon trail featuring famous bars and distilleries. Visit Museum Row on Main Street to witness craftsmanship in

action at the Louisville Slugger Museum & Factory or the Louisville Glassworks to see one of the largest privately owned hot glass studios in the U.S. Delve into history at the Frazier History Museum or learn about boxing legend Muhammad Ali at the Muhammad Ali Center. You can even cruise the Ohio River on the Belle of Louisville, a paddle-wheel steamboat boasting on-deck dining and some of the best sightseeing in the city.

These and many more opportunities await Reliable Plant attendees. Hotel availability is limited, so make your reservations today!



## HOST HOTEL

SPONSORED BY HENEK

Hyatt Regency Louisville

502-581-1234

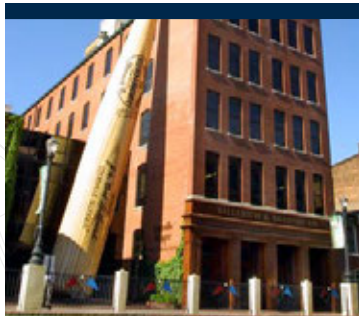
311 South 4th Street

Louisville, KY 40202

Reserve Your Room by  
March 14, 2016

Single Occupancy: \$169

- ▶ Call the hotel at 502-581-1234
- ▶ Be sure to provide the group code:  
**Reliable Plant 2016**
- ▶ Make all hotel reservation changes or cancellations directly with the Hyatt Regency Louisville
- ▶ Visit [Conference.ReliablePlant.com](http://Conference.ReliablePlant.com) for a shortcut to the hotel registration site



## GET TO KNOW LOUISVILLE

*In Louisville, they have a saying that the question isn't what to do, it's what to do first. Whether you're looking for something to do downtown or in your downtime, here's a list of our 10 favorite things to do in the Lou.*

- 1 ▶ Sample some only-in-Louisville cuisine by eating a Hot Brown at the Brown Hotel.
- 2 ▶ Get your picture taken with a six-story-tall bat at the Louisville Slugger Museum & Factory.
- 3 ▶ Sip a bourbon cocktail and get your passport stamped along the Urban Bourbon Trail.
- 4 ▶ Cruise down the Ohio River on the Belle of Louisville, the nation's oldest operating steamboat.
- 5 ▶ Experience the Kentucky Derby everyday at the Kentucky Derby Museum.
- 6 ▶ Savor some of the city's best cuisine on "Restaurant Row" along Bardstown Road.
- 7 ▶ Take a swing at "The Champ" at the Muhammad Ali Center.
- 8 ▶ Do dinner and dancing at Fourth Street Live!, the city's premier entertainment and nightlife district.
- 9 ▶ Make a bet and watch live racing at the historic Churchill Downs, home to the Kentucky Derby.
- 10 ▶ Get your picture taken with the Colonel at the Louisville Visitors Center.



CONFERENCE & EXHIBITION

FOR MORE INFORMATION  
[Conference.ReliablePlant.com](http://Conference.ReliablePlant.com)

## PRICING & GROUP RATES

INDIVIDUALS **\$1,295**

INDIVIDUALS  
+ CERTIFICATE  
PROGRAM **\$1,595**

GROUPS  
3-9 **\$845**

GROUPS  
10+ **\$745**  
BEST VALUE

WORKSHOP **\$225**  
Additional with paid full registration  
Workshop only is \$295

GROUPS RECEIVE AN 30% DISCOUNT ON  
ALL PRE- AND POST-CONFERENCE WORKSHOP FEES

### It's not too late to consider a sponsorship!

Sponsorship packages go fast and are sold on a first-come, first-served basis. A few premier sponsorships remain – increase your visibility and put your marketing dollars to work for you by joining this prestigious group of 2016 Reliable Plant sponsors.

## HOW TO REGISTER

**ONLINE:** [Conference.ReliablePlant.com](http://Conference.ReliablePlant.com)

**FAX:**

Fax your completed registration form to 918-746-0925

**PHONE:**

Give us a call at 918-392-5038

Monday – Friday, 8 a.m. – 5 p.m. (CST)

## WHAT'S INCLUDED?

**FULL-CONFERENCE REGISTRATION INCLUDES:**

- Admission to all conference sessions
- Conference proceedings
- Opening general session and keynote address
- Exhibition hall access
- Daily breakfasts, refreshment and lunches
- Networking receptions
- **FREE** Noria training coupon, *valued at \$1,295*

**WORKSHOP REGISTRATION INCLUDES:**

- Course materials
- Refreshment breaks
- Opening general session (*Tuesday only*)
- Exhibition hall access (*Tuesday only*)

## BRINGING THE CREW? GROUP DISCOUNTS AVAILABLE



**3 to 9 ATTENDEES:**

Get three or more full-conference registrations for only \$845 each, plus a 30% discount on all pre- and post-conference workshop fees.

**10 or MORE ATTENDEES:**

Get 10 or more full-conference registrations for only \$745 each, plus a 30% discount on all pre- and post-conference workshop fees.



CONFERENCE & EXHIBITION

# REGISTRATION FORM

2016 RELIABLE PLANT CONFERENCE & EXHIBITION  
APRIL 5-7, 2016 | Louisville, Kentucky  
KENTUCKY INTERNATIONAL CONVENTION CENTER

## REGISTRANT INFORMATION

Please print your name clearly. Your name and company will appear on your badge. **PLEASE photocopy this form for an additional registrant.**

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Address 1 \_\_\_\_\_

Address 2 \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_

Zip/Postal Code \_\_\_\_\_ Country \_\_\_\_\_

E-mail (required) \_\_\_\_\_

Phone Number (required) \_\_\_\_\_

## CONFERENCE FEES

### Individual Full Conference

- Full Conference Registration ..... \$1,295
- Full Conference Registration + Certificate Program ..... \$1,595

### Individual 1-Day

- Individual 1-Day ..... \$395
- Exhibition Hall Only ..... \$95

### Guest

- Guest/Spouse/Family ..... \$195  
*(Must accompany paid attendee)*

## BEST VALUE! Group Discounts

**3 or more** full-conference registrations for only \$845 each;

**10 or more** \$745 each. Group discounts include a 30-percent discount on pre- and post-conference workshop fees. Group registrations must be purchased at the same time. Call 918-392-5038 to take advantage of this offer.

Cancellations must be in writing and postmarked by March 1, 2016. All cancellations received after this date are subject to a \$75 administrative fee, but you will also receive a \$75 coupon good for use against the cost of a Noria training or conference. If you don't cancel and you don't attend, you will be charged the full registration fee. However, a company may substitute one attendee for another, without penalty. Written notice prior to the event is required for substitute attendees.

## HOW TO REGISTER

ONLINE: [Conference.ReliablePlant.com](http://Conference.ReliablePlant.com)

### FAX:

Fax your completed registration form to:  
**918-746-0925**

### PHONE:

Give us a call  
Monday – Friday, 8 a.m. – 5 p.m. (CST)  
**918-392-5038**

## PRE-CONFERENCE WORKSHOPS

SAVE with Full Registration

- The Essential Elements of Industrial Lubrication Fundamentals. .... \$295 ..... **\$225**
- Lubrication Excellence Essentials for Leaders ..... \$295 ..... **\$225**
- Critical Success Factors and Benefits of Condition-based Maintenance... \$295 ..... **\$225**

## POST-CONFERENCE WORKSHOPS

SAVE with Full Registration

- How to Achieve Maintenance Planning Excellence ..... \$295 ..... **\$225**
- Certified Reliability Leader Workshop ..... \$295 ..... **\$225**

## PRAYER BREAKFAST

- Wednesday, April 6, 2016 - 7:00 a.m. - 7:50 a.m. .... FREE

## TOTAL PAYMENT DUE: \$ \_\_\_\_\_

Payment due upon receipt of invoice and prior to conference. No registration materials will be distributed without full payment. Customers outside the U.S.: We accept checks drawn on U.S. banks in U.S. dollars.

## METHOD OF PAYMENT

Payment must be received prior to the conference.

- Check # \_\_\_\_\_ is enclosed or will be mailed  
Please make check payable to: Noria Corporation
- Charge my:  Visa  MasterCard  AmEx  Discover

Noria Corporation is authorized to charge the credit card below for my conference registration fees in the amount indicated on this form.

Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_ / \_\_\_\_\_

Name on Card \_\_\_\_\_

Cardholder's Signature \_\_\_\_\_

- Bill Me/My Company - P.O. # \_\_\_\_\_



Noria.com | 800.597.5460 | 1328 East 43rd Court | Tulsa, OK 74105



FOR MORE INFORMATION  
[Conference.ReliablePlant.com](http://Conference.ReliablePlant.com)

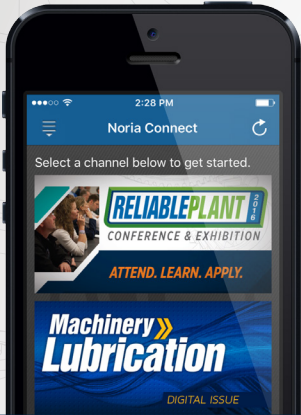


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1328 East 43rd Court, Tulsa, OK 74105

## Stay Organized With **NORIA CONNECT**

*Noria Connect is your guide to Reliable Plant 2016!*

- ▶ Search for sessions by keyword or presenter
- ▶ Create custom conference session schedules
- ▶ Map the exhibitors you want to visit and more...



Not Using iOS?  
No Problem, visit  
[Connect.Noria.com](http://Connect.Noria.com)

## QUESTIONS

### Registration Info

Elissa Ackerman  
Toll Free: 1-800-597-5460  
or 1-918-392-5038  
[registrations@noria.com](mailto:registrations@noria.com)

### Exhibitor Space Sales

Tim Davidson  
Toll Free: 1-800-597-5460  
or 1-918-392-5052  
[tdavidson@noria.com](mailto:tdavidson@noria.com)

### Attendee & Exhibitor Info

Gina Godfrey  
Toll Free: 1-800-597-5460  
or 1-918-392-5035  
[ggodfrey@noria.com](mailto:ggodfrey@noria.com)

### FOR ALL THE INFORMATION YOU NEED

Find more details and the most  
up-to-date information by visiting  
[Conference.ReliablePlant.com](http://Conference.ReliablePlant.com)

### 2016 SPONSORS



### ENDORISING SPONSORS



### MEDIA SPONSORS

