

RELIABLEPLANT 2018

CONFERENCE & EXHIBITION



APRIL 17-19
2018
INDIANAPOLIS



Conference.ReliablePlant.com

Attend. Learn. Apply.

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WHAT IS RELIABLE PLANT?

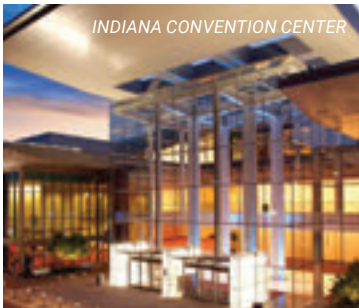
Noria's Reliable Plant Conference & Exhibition provides exhibitors and attendees with a world-class event featuring cutting-edge technical insight and high-level networking opportunities across the maintenance and reliability industry. For 2018, Reliable Plant heads to Indianapolis, Indiana, for the 19th year of this must-attend event.

With an established and global reputation for technical excellence, Reliable Plant brings together key plant and maintenance managers, as well as reliability and lubrication professionals, from across the world. Spanning four days, Reliable Plant 2018 includes workshops, learning sessions and case studies designed to upgrade the skills and knowledge of attendees. The conference will also feature approximately 100 exhibitors in a 100,000-square-foot exhibit hall inside the recently-expanded Indiana Convention Center in Indianapolis.

In 2017, more than 1,500 attendees from 47 states, 27 countries and 112 exhibiting companies came together to share ideas, solutions and information. **Make plans now to join us at Reliable Plant 2018. We will see you in Indy!**



INDIANAPOLIS, INDIANA



INDIANA CONVENTION CENTER

SCHEDULE

Monday, April 16

7:00 a.m. – 5:00 p.m. Onsite Registration
8:00 a.m. – 4:30 p.m. Pre-conference Workshops
5:30 p.m. – 8:30 p.m. ICML Certification Testing

Tuesday, April 17

7:00 a.m. – 5:00 p.m. Onsite Registration
7:30 a.m. – 8:00 a.m. Continental Breakfast
8:00 a.m. – 9:20 a.m. Opening Keynote
9:30 a.m. – 10:50 a.m. Exhibit Hall Grand Opening
11:00 a.m. – 11:50 a.m. Conference Sessions
12:00 p.m. – 1:20 p.m. Lunch in Exhibit Hall
1:30 p.m. – 5:20 p.m. Conference Sessions
3:20 p.m. – 4:20 p.m. Refreshment Break in Exhibit Hall
5:30 p.m. – 7:30 p.m. Meet and Greet Reception
6:00 p.m. – 8:00 p.m. SMRP Certification Testing
9:30 a.m. – 5:30 p.m. **Exhibition Hours**

Wednesday, April 18

7:00 a.m. – 7:50 a.m. Offsite Prayer Breakfast
7:30 a.m. – 5:00 p.m. Onsite Registration
7:30 a.m. – 8:00 a.m. Continental Breakfast
8:00 a.m. – 9:50 a.m. Conference Sessions
10:00 a.m. – 10:50 a.m. Refreshment Break in Exhibit Hall
11:00 a.m. – 11:50 a.m. Conference Sessions
12:00 p.m. – 1:20 p.m. Lunch in Exhibit Hall
1:30 p.m. – 3:20 p.m. Conference Sessions
3:20 p.m. – 4:20 p.m. Refreshment Break in Exhibit Hall
4:30 p.m. – 5:20 p.m. Conference Sessions
5:30 p.m. – 7:30 p.m. Networking Reception
6:00 p.m. – 9:00 p.m. ICML Certification Testing
9:30 a.m. – 5:30 p.m. **Exhibition Hours**

Thursday, April 19

7:30 a.m. – 11:00 a.m. Onsite Registration
7:30 a.m. – 8:00 a.m. Continental Breakfast
8:00 a.m. – 8:50 a.m. Conference Sessions
8:50 a.m. – 9:20 a.m. Refreshment Break in Exhibit Hall
9:20 a.m. – 11:10 a.m. Conference Sessions
11:30 a.m. Giveaways in Exhibit Hall
1:00 p.m. – 4:30 p.m. Post-conference Workshops
8:50 a.m. – 11:30 a.m. **Exhibition Hours**

Why Attend?

TOP 10 REASONS TO ATTEND

Reliable Plant covers every facet of reliability in one four-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** – deduct conference expenses on your taxes
- 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
- 10. Invest in your company** – capture information and apply what you've learned on the job

WHO ATTENDS?

As a reliability professional, 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 the 19th annual Reliable Plant Conference & Exhibition 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



Opening Keynote



FLYING IN FORMATION

Greg "Boss" Wooldridge
Tuesday, April 17th
8:00 - 9:20 a.m.

Greg "Boss" Wooldridge is the only commanding officer to lead the Blue Angels for three separate tours. He was first selected because of his demonstrated ability to build teams where communication, trust and teamwork took precedence over rank and status. His heart-driven approach proved a perfect match for the Blue Angels' culture of excellence, and he was called back to lead two more teams through times of difficult transition. Since his success with the Blues, Greg has been inspired to share

his methods in order to empower individuals and teams on their journey toward high performance. From the very start of his career in the Navy, Greg was immersed in the building of great teams. In flight candidate school, he learned from the camaraderie of his class, an emotion that elevated individuals by first elevating the performance of the team. Later, acting as a commander of a carrier squadron, Greg discovered that teams which drive toward something greater than themselves unlock an ability to perform at extreme levels. And finally, when he was selected as the commanding officer of the Blue Angels, the Navy's—and the world's—premier flight demonstration squadron, Greg experienced what it was like to take one's dreams and beliefs on an upward spiral, into the beyond.

For more about Reliable Plant 2018, visit Conference.ReliablePlant.com.

Certificate Programs



NEW FOR 2018

Along with the 90+ learning sessions, Reliable Plant offers conference attendees the unique opportunity to participate in certificate programs. Conducted by industry experts, the certificate programs are specialized learning paths consisting of a half-day pre-conference workshop and four required learning sessions on key topics that every maintenance and reliability professional needs to become a top performer in the field. In addition to a full-conference registration and workshop, program participants receive:

- > **Certificate of Completion**
- > **\$125 Noria Bookstore Voucher**
- > **Access to the VIP Lounge**
- > **Private Reception**

Visit Conference.ReliablePlant.com for more information, pricing and details for the certificate programs.



MAINTENANCE MANAGEMENT

Achieving Better Maintenance Management with Proven Leadership Tactics

Doc Palmer, *Richard Palmer & Associates*

Monday, April 16 | 8-11:30 a.m.

Learning Sessions:

- > From Firefighting to First-class Maintenance: A Case Study - Don McDaniel and George Miconi, *Worthington Industries*
- > How to Apply Reliability-centered Maintenance Concepts in Your Daily Work - Jeff Shiver, *People and Processes*
- > Next-generation Prescriptive Maintenance: A Case Study - Rendela Wenzel, *Associate Senior Consultant Engineer, Eli Lilly*
- > Case Study: Planning and Scheduling an Improvement Project - Scott Roth, *Pierce County Planning and Public Works*



CONDITION MONITORING

How to Integrate Multiple Condition Monitoring Technologies for Maximum Reliability

Walter Barringer, *Allied Reliability Group*

Monday, April 16 | 1-4:30 p.m.

Learning Sessions:

- > The Power of Correlating Oil Analysis and Vibration Analysis Results - Andy Page, *Allied Reliability Group*
- > How to Use Vibration Analysis to Identify Equipment Problems - Walter Barringer, *Allied Reliability Group*
- > Understanding the Complexities of Ultrasound for Machine Condition Monitoring - Andy Page, *Allied Reliability Group*
- > Common Misconceptions for Using Infrared Thermography to Inspect Plant Equipment - T.J. Garten, *Allied Reliability Group*

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CONTAMINATION CONTROL

Identifying the Causes of Contamination and the Actions That Mitigate Them

Henry Neicamp and Randy Clark, *Polaris Laboratories*

Monday, April 16 | 1-4:30 p.m.

Learning Sessions:

- > How to Spot the Clues of Air Entrapment and Foaming in Oil - Randy Clark, *Polaris Laboratories*
- > Best Ways to Detect Water in Oil - David Swanson, *Polaris Laboratories*
- > Pinpointing the Root Causes of Particle Contamination - Scott Howard, *Hy-Pro Filtration*
- > Why You Should Be Testing for Varnish - Elaine Hepley, *Polaris Laboratories*

SPONSORED BY:



LUBRICANT SELECTION

How to Get Lubricant Selection Right Every Time

Bennett Fitch, *Noria Corporation*

Monday, April 16 | 8-11:30 a.m.

Learning Sessions:

- > How to Properly Identify Your Lubrication Requirements - Nick Stolz, *Chevron*
- > How to Match the Lubricant to the Application - Brian Schmidt, *Chevron*
- > Most Effective Ways to Evaluate Your Lubricants - Dan Holdmeyer, *Chevron*
- > Maximizing the Lubricant Supplier Relationship - Jason Gerig, *Chevron*

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2 GIVEAWAYS. WINNERS.

Attend Reliable Plant 2018 and you could win one of two sensational getaways! The winners will choose to head north to the Last Frontier for an eight-day Alaskan cruise or west to the Paradise of the Pacific for a six-day Hawaiian getaway.

Visit Conference.ReliablePlant.com for official rules and more information.



Conference Workshops

PRE-CONFERENCE WORKSHOPS - Monday, April 16 | 8-11:30 a.m.



Achieving Better Maintenance Management with Proven Leadership Tactics - Doc Palmer, *Richard Palmer & Associates Inc.*

Many organizations struggle to control the most important areas of their maintenance program as well as the roles of individuals within it. This workshop by Doc Palmer, author of the *Maintenance Planning and Scheduling Handbook*, will help managers and leaders understand key concepts and develop essential skills to make their maintenance programs more successful. Different organizational styles will be covered along with change management tactics and personality issues. Discover how to apply proven leadership techniques from W. Edwards Deming, Peter Drucker and Jim Collins to maintenance but also take home principles and practices to make a good maintenance organization great.



How to Get Lubricant Selection Right Every Time - Bennett Fitch, *Noria Corporation*

All lubricants have an optimum reference state. This includes the right quality, performance, viscosity, thermal range, etc. To achieve this optimum state, you must avoid the classic false economies of lubricant selection and the lure of cheap oil. Join Noria's Bennett Fitch as he explains why you shouldn't try to save money by purchasing economy-formulated lubricants or attempt to remedy bad lubrication practices by buying expensive premium lubricants. Attendees will discover how to select the optimum lubricant for a machine application as well as how small differences in lubricant performance can translate into huge differences in machine reliability.

PRE-CONFERENCE WORKSHOPS - Monday, April 16 | 1-4:30 p.m.



How to Integrate Multiple Condition Monitoring Technologies for Maximum Reliability - Walter Barringer, *Allied Reliability Group*

How do the "big four" condition monitoring technologies work and what can they tell you about your machinery and your equipment's condition? This workshop will focus on the four primary condition monitoring technologies: vibration, infrared thermography, ultrasound and oil analysis. Beginning with an explanation of the applications for each technology, Walter Barringer will cover what the technologies can and cannot do when integrated into a condition monitoring program. Attendees will learn how each of the four primary technologies works, when and where to apply each technology, which technologies to start with first in a new condition monitoring program, and how to choose equipment for inclusion in the program.



Identifying the Causes of Contamination and the Actions That Mitigate Them - Henry Neicamp and Randy Clark, *Polaris Laboratories*

When faced with oil contamination problems, do you know which maintenance practices fall into the good, better and best categories? Have you identified the equipment critical to your operations and the ones that could be run to failure? What actions can reduce the lifetime maintenance costs of the components? Corrosion and mechanical wear account for 75 to 80 percent of the reasons components fail. This workshop will investigate the causes of contamination, the damage that contaminants generate and the predictive maintenance techniques that can mitigate problems or avoid them entirely.



POST-CONFERENCE WORKSHOPS - Thursday, April 19 | 1-4:30 p.m.



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

There's a revolution occurring. Managers who once desired machine reliability now demand it. It's a matter of corporate survival in the global economy, and effective machinery lubrication is an essential enabler to success. This movement has led companies in all industries to take control of reliability by reinventing their lubrication programs. Those who are responding to the challenge are seeing amazing results – on the bottom line, where it counts most. The change goes beyond simply using better lubricants. The leaders are employing technologies, empowering employees and building ultramodern new practices – creating a new and energized reliability culture.



Designing and Procuring Equipment to Increase Reliability - Jerry Putt, *Noria Corporation*

Most efforts to meet reliability goals generally come from the maintenance organization. Often the inherent reliability of the system is determined by the design and procurement practices employed long before the equipment becomes the responsibility of the plant. Design and procurement personnel usually are focused on meeting functionality requirements within cost and delivery time constraints. This workshop will provide suggestions for designers and procurement professionals that can result in higher potential reliability and give maintenance teams opportunities to consistently achieve the optimum capability of the equipment.

Learning Sessions

Here's a quick look at some of the more than 90+ learning sessions. New sessions are being added weekly, so stay up-to-date by visiting Conference.ReliablePlant.com.

CS Case Study

Certificate Program Sessions:



Condition Monitoring

Contamination Control



Lubricant Selection

Maintenance Management

Why Employee Engagement Is the Key to Successful

Maintenance Programs - Patrick Garin, *Plant Manager, Cabka*

CS

You can have the best technicians in the world, but if they are not engaged, they will produce only average results. This presentation will explain how to fully empower and engage your techs to bring your maintenance department to the next level. This simple approach offers a huge payback and does not require a financial investment. Attendees will learn how to bring out the lost potential of their team members and make them feel more like an asset to achieve maximum results.

Growing a Maintenance Organization: A Farm System Approach

Douglas Smith, *Reliability Engineer, Pinnacle Foods*; Tony Fraise, *Maintenance Manager, Pinnacle Foods*

CS

This case-study presentation will detail how Pinnacle Foods addressed its skilled trades shortage by using an approach similar to a baseball farm system. See how the company built its program, grew and developed its workforce, and leveraged skill-based pay to retain the major-league players on its team. You will hear how online education was employed to train technicians, how young people were engaged to make them aware of the careers available through skilled trades, and what the benefits and drawbacks have been.

How to Start or Revive a Maintenance and Reliability Program

Dale Deem, *Reliability Engineer, Oerlikon Fairfield Manufacturing*

CS

Starting a maintenance and reliability program can be a bit overwhelming. This case-study presentation will provide the basic steps for developing a well-thought-out plan and a logical approach for a new or revived program, with each key step building upon the preceding one. Join reliability engineer Dale Deem as he explains that you are not alone in this journey as well as why not all initiatives must occur at the same time and which resources and collaboration opportunities are available to you.

Goodyear's Journey to Lubrication Excellence: A Case Study

Andrei Melo, *Lubrication Competence Leader, Goodyear*; Rafael Jordão, *Reliability Manager, Goodyear*

CS

The Goodyear Americas tire plant in Americana, Brazil, was facing a number of serious lubrication issues. As with most plants, personnel didn't know where to begin; they only knew they had a problem. This case-study presentation will detail Goodyear's journey to lubrication excellence. Attendees will see how the plant was able to implement and sustain its lubrication program, reduce downtime and save money, as well as how these same steps can be used to achieve similar results in any organization.

Case Study: Planning and Scheduling an Improvement Project - Scott Roth, *Maintenance Program Manager, Pierce County Planning and Public Works, Sewer Division*



CS

In many organizations, supervisors schedule their staff's work week, which often is not the most effective approach. This case-study presentation will detail how the Pierce County Planning and Public Works' Sewer Division employed lean and Six Sigma processes to save its team time while also providing supervisors with a better understanding of which tasks are being completed and how long each takes. Join Scott Roth as he shares how supervisors and staff can work together on a common goal to put the best person in place to accomplish the task at hand. You will see how dynamic work can be planned and scheduled, how to obtain buy-in from your staff and how technology can be used to maximize effectiveness.

From Firefighting to First-class Maintenance: A Case Study

Don McDaniel, *Maintenance Lead/Manager, Worthington Industries (Steel Division)*; George Miconi, *Maintenance Planner, Worthington Industries (Steel Division)*

CS

This case-study presentation will provide a detailed roadmap to a sound maintenance program so you can improve machine uptime at your organization. Join Worthington Industries' Don McDaniel and George Miconi as they share the path their company took to transition from being reactive to becoming more proactive and achieving greater uptime. You will hear why communication is key, how to determine the root cause of problems, why change is your friend and how anyone can develop a team of first-class maintenance technicians.

The Power of Correlating Oil Analysis and Vibration Analysis Results

- Andy Page, *Principal Consultant, Allied Reliability Group*



Many people apply both oil analysis and vibration analysis to the same machine components, but often the results are presented independently, with some details lost in the process. This session will explain how much can be gained from comparing the findings of both oil analysis and vibration analysis before maintenance recommendations are made. Attendees will gain a better understanding of how different technologies can corroborate each other as well as some of the most common mistakes made by lubricant analysts and vibration analysts when they do not compare notes.

Mastering the 5 Levels of Maintenance for Maximum Equipment Availability

- Carl Stevens, *District Equipment Manager, Virginia Department of Transportation*

CS

Prior to re-evaluating its maintenance strategy, the Virginia Department of Transportation (VDOT) had been utilizing a scheduled maintenance program and in some cases a "failure" maintenance program. In 2003, the VDOT changed its strategy and began focusing on five key levels of maintenance to achieve a reliability-centered program. This case-study presentation will describe how the VDOT's maintenance program has been able to attain four of the five levels, with the fifth level steadily evolving. Join Carl Stevens as he shares the rationale and benefits of this approach as well as the results of the program.



98%

of attendees said they would recommend the event to others in the industry.

Key Principles of Maintenance Planning and Scheduling

Doc Palmer, *Managing Partner, Richard Palmer & Associates*

CS

In this case-study presentation, Doc Palmer, author of McGraw-Hill's *Maintenance Planning and Scheduling Handbook*, will detail the steps the Jacksonville Electric Authority used to turn around its maintenance planning department, including how crews were able to work down their entire backlog, free up time to perform proactive work, replace contract labor and assist other stations. Attendees will gain a better understanding of the six key principles of effective planning and scheduling along with how a proper system can transform a reactive work environment for maintenance success.

How to Interpret an Oil Analysis Report - Evan Zabawski, *Senior Technical Advisor, TestOil*

Oil analysis data can often be confusing and difficult to understand. This presentation will help to provide some clarity through detailed explanations of typical oil analysis tests and results, common causes for changes in the data, and pitfalls to avoid. Attendees will find out how to better interpret the oil analysis reports they receive from their lab, what the standard tests are designed to measure and reveal, the most likely reasons for values being too high or low, and the most frequently made mistakes and misconceptions regarding data interpretation.

How to Commission Equipment for Better Asset Management

Saul Cizek, *Senior Maintenance Planner, Upper Occoquan Service Authority*

CS

With fast-approaching deadlines and mounting pressures, most practitioners must work hard to put equipment into service. This case-study presentation will provide some peace of mind and coping resources to help make the commissioning process more efficient. Join Saul Cizek as he shares how the Upper Occoquan Service Authority improved its approach for commissioning equipment and asset

management with real-world examples of successes and lessons learned. Find out how to develop a commissioning plan, select a commissioning leader and convince supervisors to allow adequate time for commissioning, as well as which follow-up steps must be taken.

How to Design, Implement and Manage an Effective Oil Analysis Program

Alejandro Meza, *Senior Technical Consultant, Noria Corporation*

Too often the individual responsible for the oil analysis program has simply accepted a program proposed by the lubricant vendor or a third-party laboratory, assuming it will be suitable for the organization's needs. While this assumption is not always wrong, the question becomes whether the program has been appropriately customized for the plant's machine conditions, equipment criticality and reliability objectives. This session will detail the enhanced capabilities of oil analysis when used in combination with a proper program design. You will learn how to perform a self-assessment to evaluate the effectiveness of your current program, how to choose test slates based on program objectives and equipment criticality, and how to revitalize your oil analysis program to maximize its potential.

How to Implement a Preventive Maintenance Program

Abdul Alami, *Professional Engineer, Alberta Infrastructure*

CS

Many organizations have a preventive maintenance (PM) program, but few are implemented effectively. This presentation will reveal some of the most common failures associated with deploying a PM program, as well as a number of tips and strategies to help overcome the typical implementation challenges. Join Alberta Infrastructure's Abdul Alami as he explains a back-to-basics approach to help attendees understand the key concepts and methods for turning around a failing preventive maintenance program.

Learning Sessions

Choosing the Right Failure Analysis Tool for the Job

Thomas Brown, *Principal Engineer, Reliability Solutions*

A variety of problem-solving methods can be used to analyze equipment and process failures. Each has its own strengths and weaknesses that must be matched to the problem for maximum effectiveness. This session will reveal which failure analysis methods and tools work best in different situations. You will gain a better understanding of how to identify the training, time and financial resources required to utilize each method, as well as which types of situations, failures and issues each method is best suited to solve.

Understanding the Changing Requirements for Food-grade Lubricants

Wes Cash, *Director of Technical Services, Noria Corporation*

With the deadline for compliance with the Food Safety Modernization Act (FSMA) already passed, it is increasingly important for all food and beverage plants to understand the scope of this legislation. Complying with food-grade lubrication principles is no longer voluntary but is now the law and must be followed. This session will reveal what this act means for your organization and lubrication program. You will learn the risks that must be addressed, some simple strategies to help ensure compliance and the potential penalties for those who don't conform to this legislation.

How to Apply Reliability-centered Maintenance Concepts in Your Daily Work

- Jeff Shiver, *Founder/CEO, People and Processes*



Many maintenance teams struggle to break the reactive cycle of chaos with regards to driving reliability. Not only are there financial costs, but there are human costs, too. In this learning session, join Jeff Shiver as he shares his insights and experiences to deliver asset reliability and end the chaos. He will show you how to use reliability-centered maintenance (RCM) concepts and apply them in your daily work. You will learn how to build partnerships, evaluate proactive maintenance strategies, balance planning and scheduling, ensure you have the right parts and materials, and then get it all done.

How to Write More Effective Maintenance Work Orders and Task Descriptions

- Michael Mazur, *Maintenance Trainer/Mechanic, Schwan's Global Supply Chain*

CS

Preventive maintenance (PM) descriptions, emergency work orders and operational checklists are frequently written without any review or standardization. This often leads to misinterpretation, inefficient

application of work and even confusion as to what needs to be accomplished. This session will offer examples of ineffective PMs and work orders as well as show how tasks can be rewritten for more efficient work. You will learn how to standardize the task format, use clear and concise language, and define a systematic work flow for more repeatable maintenance actions and greater equipment reliability.

Using Oil Analysis as a Condition Monitoring Tool

Muhammad Ali Qureshi, *Reliability Engineer, Saudi Aramco*

CS

This case-study presentation will reveal the results and benefits that Saudi Aramco has seen from its corporate-wide oil condition monitoring program. Find out how the oil company was able to detect permanent shear of oil molecules in certain applications, which was reducing the oil's viscosity, as well as what actions were taken. Attendees not only will hear recommendations for improving the viscosity index based on oil analysis but also see how Saudi Aramco's condition monitoring program allows samples and analysis of the company's machinery to be contained in one location.

MAINTENANCE MANAGEMENT

How to Make Your Plant Safer Through Worker Engagement

Paul Durko, *Reliability and Maintainability Manager, CNS Y12*;
Michael Johnson, *Maintenance Execution Senior Manager, Y-12 Infrastructure*

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Recognizing the Dangers of Hazardous Chemicals in Your Facility

- Rose Wilson, *PSM/RMP Coordinator, George's Inc.*

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Advantages of Centralized Asset Management

Guadalupe Rodriguez, *Maintenance and Planning Specialist, Metso Minerals - Canada*

CS

How and Why You Should Quantify Your Maintenance Tasks

Roger Collard, *Engineering, Maintenance & Reliability Manager, Calumet Specialty Products Partners*

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Best Ways to Capture Knowledge from an Aging Workforce

Paul Dufresne, *President and CEO, Reliability Playbook*

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Is Reliability-centered Maintenance for You?

Nancy Regan, *President, The Force Inc.*

10 Keys for Improved Plant Reliability

Shon Isenhour, *Founding Partner, Eruditio LLC*

DON'T MISS INSIGHTFUL CASE STUDIES FROM THESE INDUSTRY LEADERS...



Learning Sessions



Using Data Science to Prevent Machine Failures and Plant Disruptions

Michael Brooks, *Senior Director, AspenTech*

A Day in the Life of a Maintenance Planner

Steven Tuttle, *Senior Maintenance Planner, C&W Services*

Embracing Data Management to Prevent a Plant Disaster

David Bell, *Principal Digital Product Manager, GE Digital*

How to Manage Critical Spares to Achieve Plant Reliability

Donald Shoemaker, *Vice President, Asset Services, Synovos*

Procedure-based Maintenance: Taking Maintenance to the Next Level

James Kovacevic, *Principal Consultant, HP Reliability*

Next-generation Prescriptive Maintenance: A Case Study

Rendela Wenzel, *Associate Senior Consultant Engineer, Eli Lilly*

How to Prepare for a Plant Shutdown

Mohammed Alismail, *Planning and Material Section Head, Saudi Electricity Co.*

RELIABILITY ENGINEERING

Reliability Engineering in the Wind Industry: A Case Study

Matthew Carney, *Engineer, Exelon Generation*

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Creating a Reliability Culture for Power Systems

Alan Ross, *Vice President of Reliability, SDMyers*

How to Turn Around a Poor-performing Reliability Program

Jeremy Wright, *Director of Product Management; Mark Young, Director of Reliability, Advanced Technology Services*

Why Data Collection Is More Important Than Reliability Modeling

Carles CG - *Senior Fleet Performance Engineer, Reliable Dynamics*

ROOT CAUSE ANALYSIS

Case Study: Lessons Learned from a Failure Analysis

Daniel Sherbert, *Reliability Engineer, EJ*

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Case Study: How to Uncover the Root Cause of Failures and Improve Hydraulic System Reliability

William Abernathy, *Technical Manager, Rehrig Pacific*

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LUBRICATION PROGRAM MANAGEMENT

How ISO 55000 Is Changing the Definition of Lubrication Excellence

Jim Fitch, *CEO, Noria Corporation*

How to Design Effective Lubricant Storage

Terry Harris, *President, Reliable Process Solutions*

Overcoming the Risks of Cold Machine Starts

Bennett Fitch, *Senior Technical Consultant, Noria Corporation*

Best Practices for Topping up Small Sumps and Reservoirs

Garrett Bapp, *Technical Consultant, Noria Corporation*

10 Common Grease Problems and How to Solve Them

Joe Goecke, *Senior Technical Services Advisor, Petro-Canada*

Case Study: How to Implement Lubrication Best Practices

Ishanth Sameera, *RCM Senior Manager, Camso Loadstar*;
Mahesh Goonesekere, *Director of Engineering, Camso Loadstar*

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OIL ANALYSIS

Optimizing the Lifespan of Turbine Oil Through Proper

Maintenance: A Case Study - David Turner, *Product Specialist, CITGO Petroleum Corp.*; Leeann Wimer, *Mechanical Engineer, U.S. Army Corps of Engineers*

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Learning Sessions

Using Drones for Remote Oil Sampling

Michael Holloway, *Strategic Accounts & External Training, ALS Tribology*

How to Inspect the Health and State of Your Oil

Tom Fitch, *Luneta*

New Oil Analysis Methods for Identifying Varnish

Ruediger Krethe, *OilDoc GmbH*

How to Determine When New Oil Is Needed - Andrés Lantos, *Analytical Developments & Technology, Laboratorio Dr. Lantos, Wearcheck Argentina*; Dave Wooton, *Consultant, Wooton-Consulting*

Taking Oil Sampling to the Next Level

Bernie Hall, *General Manager, Checkfluid*

How to Properly Manage Your Oil Analysis Data

Cary Forgeron, *General Manager, Bureau Veritas*

5 Things That Will Change Oil Analysis

Jorge Alarcon, *Consultant, Tekniker*

New Thermal Techniques for Grease Analysis

Cory Schomburg, *Principal Scientist, PerkinElmer*

How to Analyze Grease with FTIR Spectroscopy

Dave Wooton, *Consultant, Wooton-Consulting*

CONDITION MONITORING

Vibration Analysis Techniques for Identifying Failure Root

Causes: A Case Study - Zeeshan Iqbal, *Reliability & Performance Engineer*; Arifur Rahman, *Assets Manager, Territory Generation*

How to Use Vibration Analysis to Identify Equipment Problems

Walter Barringer, *Senior Reliability Professional, Allied Reliability Group*

Improving Equipment Reliability Through Condition Monitoring

Girish Chandra, *Manager of Reliability and Planning, Yara Fertilizers India*

Why Machine Alignment Should Not Be Overlooked

Garrett Bapp, *Technical Consultant, Noria Corporation*

Best Methods for Reducing Vibration Levels in Mechanical Systems

Robert Sayer, *President, Vibration Institute*

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Common Misconceptions for Using Infrared Thermography to Inspect Plant Equipment

T.J. Garten, *SME, Allied Reliability Group*

How to Lower Maintenance Costs with a Condition Monitoring Program

Steffen Nyman, *Corporate Trainer & Consultant, C.C. Jensen*

The Benefits and Limitations of Wireless Vibration Technology

Rich Pratt, *Asset Reliability Consultant, Cornerstone Controls*

Understanding the Complexities of Ultrasound for Machine Condition Monitoring

Andy Page, *Principal Consultant, Allied Reliability Group*

How to Maximize the Value of IoT-based Condition Monitoring

Jeremy Drury, *Vice President, IoT Diagnostics*

Ultrasound-assisted Lubrication: 3 Approaches to Improving Bearing Lubrication Practices

Adrian Messer, *Manager of U.S. Operations, UE Systems*

Using Infrared Thermography for Successful Condition Monitoring

Leonard Harrington, *Channel Partner Manager, FLIR Systems*

The Power of Remote Condition Monitoring in Optimizing Maintenance Practices

Eric Krause, *Technical Specialist, Pall Corp.*

Latest Advances in Vibration Analysis for Low-speed Machines

Ron Kittle, *Sales & Service Engineer, SPM Instrument*

HYDRAULICS

Pump System Optimization: The Key to Improving Plant Reliability

Mark Sullivan, *Director of Education*; William Livoti, *Senior Engineer & Trainer, Hydraulic Institute*

Is a Fill-for-Life Lubrication Strategy Right for You?

Jatin Mehta, *Research Engineer, Fluitec International*

How to Ensure Hydraulic System Reliability

Martin Migliori, *Fluid Systems Engineering Manager*; Joe Lisowski, *Applications Engineer, Airline Hydraulics*

CONTAMINATION CONTROL

New Alternatives for Mitigating Varnish in Turbine Oil:

A Case Study - Russell Flagg, *CBM Program Owner, Duke Energy*



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GET A FREE NORIA TRAINING COUPON

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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 2018 and April 2019, or online courses purchased prior to April 2019. 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.

Learning Sessions



“ I attended every session I could, and they were all good.”

Elvis Reid, Saint-Gobain Abrasives

Controlling Dirt Ingression in Engine Oil

Nnamdi Achebe, *Petrosave Integrated Services*

Why You Should Be Testing for Varnish

Elaine Hepley, *Data Analyst, Polaris Laboratories*

How to Spot the Clues of Air Entrapment and Foaming in Oil

Randy Clark, *Technical Business Consultant, Polaris Laboratories*

Best Ways to Detect Water in Oil

David Swanson, *Director of Technical Services, Polaris Laboratories*

Pinpointing the Root Causes of Particle Contamination

Scott Howard, *Training Director, Hy-Pro Filtration*

LUBRICANT SELECTION

How to Match the Lubricant to the Application

Brian Schmidt, *Reliability Based Lubrication Manager, Chevron Lubricants*

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Extending Equipment Life Through Better Lubricant Selection

Diane Closser, *Technical Service*; David Kesterson, *Lubrication/Mechanical Technician, Chemours*

Most Effective Ways to Evaluate Your Lubricants

Dan Holdmeyer, *Industrial Sector Manager, Chevron*

How to Get the Most Out of Your Engine Oil

Wes Cash, *Noria Corporation*

Maximizing the Lubricant Supplier Relationship

Jason Gerig, *Business Development Manager, Chevron Lubricants*

What You Should Know About Lubricant Film Strength and Thickness

Bennett Fitch, *Senior Technical Consultant, Noria Corporation*

How to Properly Identify Your Lubrication Requirements

Nick Stolz, *Reliability Based Lubrication Coordinator, Chevron Global Lubricants*

Selecting Lubricants for Pharmaceutical Facilities

Alejandro Meza, *Senior Technical Consultant, Noria Corporation*

For more information, visit
Conference.ReliablePlant.com

Special Events



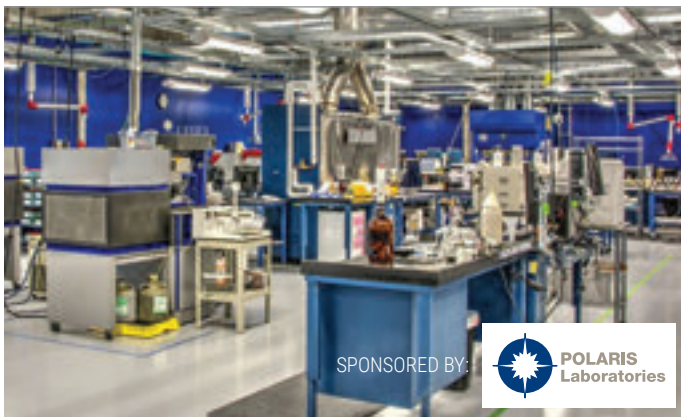
INDY TRACK TOUR

Monday, April 16, 12-3:30 p.m.

Want an insider's look behind the scenes of the Indianapolis Motor Speedway? Check out the Indy Track Tour. Participants will enjoy a narrated tour that features stops at places normally open to only officials, drivers and teams. This one-of-a-kind museum excursion and Indy track/VIP grounds tour includes:

- > Round-trip transportation to/from the Westin Indianapolis Hotel (approximately 15 minutes each way)
- > Admission to the Indy Hall of Fame Museum
- > Lap of speedway and delivery to front straightaway at start/finish line and official "Yard of Bricks"
- > Visit to the victory podium overlooking racetrack, drivers' interview room, etc.
- > Tour of the pagoda and a ride through gasoline alley
- > Lunch provided
- > \$95 per person, limited to the first 50 registrants!

NOTE: Add to your conference registration



POLARIS LABORATORIES® FACILITY TOUR

Wednesday, April 18, 5:30-8:30 p.m.

Join us for a private, after-hours guided tour through the Polaris Laboratories® facility.

- > Round-trip transportation included
- > Dinner provided
- > \$19.95 per person, limited to the first 90 registrants!

NOTE: Add to your conference registration. All participants must wear full-coverage, close-toed shoes and pants that cover your ankles. Safety eyewear provided.



NON-DENOMINATIONAL OFFSITE PRAYER BREAKFAST

Wednesday, April 18, 7-7:50 a.m.

- > Westin Indianapolis - directly across from the Indiana Convention Center
- > Full, hot buffet breakfast, coffee, juices
- > Opening remarks, prayer and closing ceremony
- > Keynote address by Indy Car Racer, Davey Hamilton
- > Free entry with pre-registration

NOTE: Add to your conference registration

Exhibition Hall & Exhibitors

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 reliability and industrial lubrication. With over 100,000 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.

		231	232	331	332	431	432	531	532	631	632	731			
129	130	229	230	329	330	429	430	529	530	629	630	729	730	829	830
127	128	227			328	427	428	527	528	627			728	827	828
125				Show Prize Giveaway Display											825
123	124	223	224		324	423	424	523	524	623	624		724	823	824
121															822
119	120	219	220	319	Noria Corporation						619	Relaxation Massage Station	720	819	820
117	118	217	218	317							618		718	817	818
115	116	215	216	315							616		716	815	816
113															814
111															812
109	110	209	210		310		410		510		610		710	809	810
107															808
105	106	205	206	305							606	705	706	805	806
	104													803	
101	102	201	202	301	302		402		502		602	701	702	801	802



EXHIBITOR LIST - KEY SPONSORS SHOWN IN BLUE (AS OF 1/19/18)

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Pentair Filtration Solutions, Inc.
People and Processes, Inc.
PerkinElmer
Petroleum Tank Company
PFPUA (*Precision Filtration*)
POLARIS Laboratories
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RelaDyne, Inc.
Reliability Solutions
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TestOil
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Turner Industries Group –
MobilOps Mobility System
UE Systems, Inc.
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Center (*RMC*)
Vacuadyn
Valicor
Vibration Institute
Whitmore
Wilcoxon Sensing Technologies
Wolfube Equipment
Y2K Fluid Power

Networking



EVENING RECEPTION

Wednesday, April 18, 5:30-7:30 p.m.

Join us for an unforgettable night of networking and fun at the Lucas Oil Stadium Plaza, home of the Indianapolis Colts. Overlooking the field, the plaza features views of the Indianapolis skyline and is conveniently connected to the Indiana Convention Center via an enclosed pedestrian corridor.

- > Appetizers, bars and entertainment
- > Open to all Reliable Plant attendees and exhibitors
- > Overlooks the home of the Indianapolis Colts

For more information, visit
Conference.ReliablePlant.com



“ I was able to network with many people and companies...”

Marty Migliori, Airline Hydraulics





INDIANAPOLIS, INDIANA

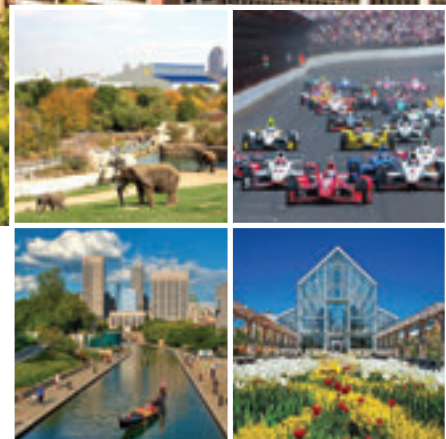
Reliable Plant Conference & Exhibition 2018 will be held at the Indiana Convention Center in Indianapolis, Indiana. Specially rated blocks of rooms are reserved at the Westin Indianapolis Downtown. You can take advantage of these discounted rates by booking your room(s) directly with the Westin Indianapolis Downtown using the group code "RELIABLE PLANT" at the time of your reservation. Availability is limited, so you are encouraged to make reservations early.



HOST HOTEL - WESTIN INDIANAPOLIS DOWNTOWN

241 W. Washington St., Indianapolis, IN 46204
1-317-262-8100

- > Call toll-free 1-800-881-1523 to reserve your room by March 26, 2018
- > Single occupancy is \$175
- > Use group code: RELIABLE PLANT
- > Make all hotel reservation changes and cancellations directly with your hotel
- > Visit Conference.ReliablePlant.com for a shortcut to the hotel registration site



GET TO KNOW INDIANAPOLIS

Known as the racing capital of the world, Indianapolis boasts a variety of attractions and activities. Whether you want to see the largest shark touch tank at the Indianapolis Zoo & White River Gardens or visit the Indianapolis Motor Speedway & Hall of Fame Museum, Indy has you covered. For a complete guide, go to VisitIndy.com.

TOP 10 MUST-DOS IN INDIANAPOLIS:

1. Pet sharks in the nation's largest shark touch tank at the Indianapolis Zoo & White River Gardens
2. The Indianapolis Motor Speedway & Hall of Fame Museum are home to the world's largest single-day sporting event
3. View one of the finest collections of American Indian and Western art at the Eiteljorg Museum
4. Discover the world's largest children's museum
5. Explore White River State Park's Central Canal in a Venetian-style gondola, surrey, bike, Segway, pedalboat or on foot
6. Uncover Indiana's secrets through hands-on exhibits at the Indiana State Museum & IMAX Theater
7. Beat on drums or a wide variety of instruments at Rhythm! Discovery Center
8. Take your family and friends out for some fun at Victory Field
9. Visit the world-renowned Indianapolis Museum of Art featuring 54,000 works spanning 5,000 years
10. Experience an eagle-eye view of the city from atop the Soldiers & Sailors Monument or visit the Indiana War Memorial Plaza

2018 Pricing & Discounts

REGISTER NOW & SAVE \$300 (UNTIL FEB.14)

Individual	Individual	Group (3-9)	Group (10+)
\$995 REGULARLY \$1,295	\$1,295 REGULARLY \$1,595	\$795 REGULARLY \$845	\$695 REGULARLY \$745
With a certificate program		Groups get 30% off all workshops	
Add a Workshop		\$225 REGULARLY \$295	Additional with paid full registration

HOW TO REGISTER



Online: Find the most up-to-date information by visiting Conference.ReliablePlant.com



Phone: Call Monday – Friday, 8 a.m. – 5 p.m. (CST)
918-392-5038



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

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, refreshments 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



BRINGING THE CREW? GET A DISCOUNT.

3 to 9 attendees: Get three or more full-conference registrations for only \$795 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 \$695 each, plus a 30% discount on all pre- and post-conference workshop fees.

WANT TO SPONSOR?

It's not too late to consider a sponsorship. Sponsorship packages 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 our prestigious group of Reliable Plant 2018 sponsors.

READY TO EXHIBIT?

Prime booth locations go fast, so reserve your exhibition space now! Spending three days on the Reliable Plant exhibit hall floor is equivalent to months of travel and hours of phone calls and meetings. Reliable Plant 2018 will provide the perfect setting for prospective customers to come to you.

Registration Form



Register online at
Conference.ReliablePlant.com



Call (M-F, 8-5 p.m. CST)
918-392-5038



Fax your registration form to:
918-746-0925

REGISTRANT INFORMATION

Please print your name clearly. Your name and company will appear on your badge. Please photocopy this form for additional registrants.

Name _____

Title _____

Company _____

Address 1 _____

Address 2 _____

City _____ State/Province _____

Zip/Postal Code _____ Country _____

E-mail (required) _____

Phone # (required) _____

METHOD OF PAYMENT

Full payment due upon receipt of invoice and prior to conference. Customers outside the U.S.: We accept checks drawn on U.S. banks in U.S. dollars.

Check: Check # _____ is enclosed or will be mailed. Please make check payable to: Noria Corporation

Credit Card: ☐ 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.

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Total number of people registering: _____

TOTAL PAYMENT DUE: \$ _____

CONFERENCE FEES

INDIVIDUALS

Full-Conference Registration (until Feb. 14, 2018)

☐ Full-Conference Registration \$995

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

1-Day Registration

☐ Individual 1-Day \$395

☐ Individual Exhibition Hall Only \$95

Spouse/Family Members (Must accompany full-conference registration attendee, see website for more details)

____ (Qty.) Spouse/Family \$195 each

GROUPS

Group discounts include a 30-percent discount on pre- and post-conference workshop fees and must be purchased at the same time. (Save until March 14, 2018)

____ (Qty.) **3-9 Full-Conference Registrations** \$795 each

____ (Qty.) **10+ Full-Conference Registrations** \$695 each

WORKSHOPS

Without Full Registration \$295 each

With Full Registration \$225 each

Pre-Conference Workshop (Limited Availability)

____ (Qty.) How to Get Lubricant Selection Right Every Time

____ (Qty.) Achieving Better Maintenance Management with Proven Leadership Tactics

____ (Qty.) How to Integrate Multiple Condition Monitoring Technologies for Maximum Reliability

____ (Qty.) Identifying the Causes of Contamination and the Actions That Mitigate Them

Post-Conference Workshop (Limited Availability)

____ (Qty.) Lubrication Excellence Essentials for Leaders

____ (Qty.) Designing and Procuring Equipment to Increase Reliability

SPECIAL EVENTS

Indy Track Tour (Limited Availability)

____ (Qty.) Monday, April 16, 12-3:30 p.m. \$95 each

POLARIS Laboratories® Facility Tour (Limited Availability)

____ (Qty.) Wednesday, April 18, 5:30-8:30 p.m. \$19.95 each

Non-Denominational Offsite Prayer Breakfast

____ (Qty.) Wednesday, April 18, 7-7:50 a.m. FREE



**100% SATISFACTION
GUARANTEE**

Noria proudly stands behind Reliable Plant 2018. If you're not satisfied with the information and insights you gain at this event, we'll refund 100% of your paid registration fee.

Cancellations must be in writing and postmarked by March 1, 2018. 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.

APRIL 17-19
2018
INDIANAPOLIS

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80%

of attendees said
they **learned something new**
they wanted to implement
when they returned home

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