

STEAM Seminar

Efficiency, Compliance and Safety in Steam Systems

Thursday, July 28, 2016
8:00 AM - 5:00 PM
Eastern Time Zone

Endress+Hauser
2350 Endress Place
Greenwood, Indiana 46143

\$250. Includes cost of event,
lunch and snacks/beverages.



**Rockwell
Automation**

ARISE

Armstrong

CleaverBrooks



Endress+Hauser
People for Process Automation



STEAM Seminar

Steam is an utmost important cost driver and a major safety concern across all industries.

Does your steam system operate safely? Do you know how to reduce risk of downtime / increase uptime and availability? How can you improve the quality of production? If these questions sound familiar, join us for this knowledge exchange and best practices seminar.

Who Should Attend

For those wanting to build or improve upon their knowledge of steam systems including engineers, technicians, designers, project managers, estimators, contractors, boiler operators, maintenance staff, as well as facilities/operations and energy personnel.

What to Expect

The Steam Seminar is a great opportunity to learn about efficient utilization of a steam system and operating practices needed to maintain a safe and reliable operation.

 For additional information or question please contact **Holly Wegeng**:

Email: holly.wegeng@us.endress.com

Office: 317-530-1974



To register, please visit

www.tinyurl.com/STEAMSeminar16

STEAM Seminar: July 28, 2016

Time	Topic	Speaker
7:45 - 8:15	Registration and networking	
8:15 - 8:45	Welcome address	Ravi Jethra - Endress+Hauser
8:45 - 9:45	Key performance indicators for boiler /steam systems	Nathan Hedrick - Endress+Hauser
9:45 - 10:15	Break	
10:15 - 11:00	Industrial Boiler Operations including Optimization	Thomas M. McDonnell - Rockwell Automation
11:00 -12:00	Maximize Your Boiler Performance	Wendell Pipkin - Cleaver Brooks
12:00 - 1:15	Lunch	
1:15 - 2:15	Steam and condensate management system	Larry Dickerson - Armstrong International
2:15 - 3:15	Jurisdictional inspection process (boiler & pressure vessels)	Terrence Vacanti - Arise Inc. A preferred partner of TÜV SÜD
3:15 - 3:45	Break	
3:45 - 4:45	Panel Session	Moderator: Ravi Jethra - Endress+Hauser
4:45 - 5:00	Closing remarks	Ravi Jethra - Endress+Hauser

Agenda Descriptions

Key performance indicators for boiler/steam systems

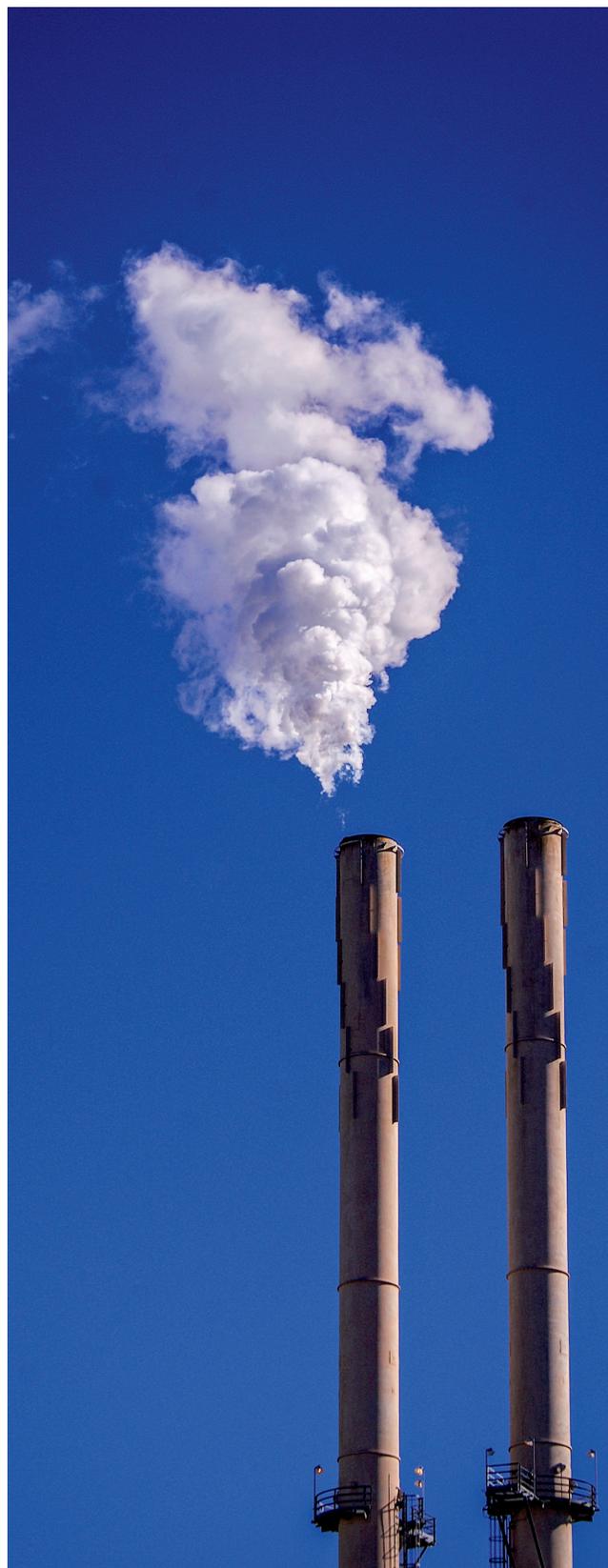
The presentation will cover KPI's (key performance indicators) for boiler/steam systems as well as best practices in monitoring these KPI's with proven measurement techniques, (installation guidelines). Some of the advances in technologies related to steam metering as well diagnostics that can be helpful in controlling costs, avoiding downtime etc will be reviewed. With energy efficiency becoming extremely important in today's business world, best practices related to monitoring of steam as well as optimizing energy efficiency will be discussed as well.

Industrial Boiler Operations including Optimization Learn to identify opportunities for boiler performance improvement. This presentation focuses on industrial boiler operations specifically as it relates to combustion control, burner management systems, emergency shutdown procedure as also ancillary equipment used on boiler / steam systems such as low voltage switch gears, drives, automation/controls and more.

Maximize Your Boiler Performance Energy saving initiatives that will reduce overall operational costs. An overview of the latest in thermodynamic and combustion technological advances as related to boilers, both hot water and steam designs.

Steam and condensate management system The session focuses on the benefits of an all-encompassing steam and condensate management program. This includes an overview of the steam distribution and condensate return systems and several energy management topics relating to the steam and condensate return system.

Jurisdictional inspection process (boiler & pressure vessels) During this session, review on the jurisdictional inspection process (boiler & pressure vessels) and how that ties back into operating certificates and the AMSE and National Board. The focus provides insight into internal and external inspections, repairs vs. alterations, the frequency of inspections, safety devices and controls for boilers such as safety valves, low water cutoffs, limit control switches.



Speaker Biographies

Ravi Jethra, Endress+Hauser

Ravi Jethra began his work with instrumentation more than 20 years ago. He attended Arizona State University and the University of Bombay. He holds an MBA and a Bachelor's degree in Engineering. Jethra began his career at Emerson Process Management as a Sales Engineer. He was Regional Sales Manager and Senior Applications Engineer with Honeywell. He then transitioned to his engineering role where he offered complete solutions to the worldwide customers of Honeywell. He also served as Global Product Manager with Static-O-Ring, Inc.

In 2010, following five years of service as Product Manager for Temperature & Data Acquisition, Ravi became the Industry Manager for Power & Energy for Endress+Hauser. In this capacity, he leads marketing, project pursuit and business development for the U.S. power generation and renewables market including biofuels and energy efficiency products. In his previous role as Product Manager, Jethra expanded the company's business in the fossil and renewable power markets while achieving sustainable, long-term product profit growth. During his tenure at Endress+Hauser, Jethra developed profitable business relationships in a new industry and market segment while increasing volume and greatly expanding the customer base.

Nathan Hedrick, Endress+Hauser

Nate Hedrick has over six years of experience consulting on process automation. He graduated from Rose Hulman in 2009 with a Bachelor's degree in Chemical Engineering. He began his career with Endress+Hauser in 2009 as a Technical Support Engineer. After over two years in that position, Nate became an Inside Sales Engineer. Later, he went on as a Systems Product Specialist supporting digital communications, such as HART, as well as our engineering solutions, including RSLogix. After a few years there, he went on to work as the Technical Support Team Manager for Temperature, Recorders, and Systems. In 2014, Nate began working in his current role as the Technical Support Team Manager for Flow. In this position, he is responsible for managing the technical support team covering our flow product line.

Wendell Pipkin, Cleaver Brooks

Wendell Pipkin, Manager for the Controls and Conversions divisions of Cleaver Brooks, Inc., brings over thirty (30) years experience in boilers, boiler controls, computers and the industrial control business. A publisher of several articles on the subject of proper boiler control including interfacing with various building management systems, Mr. Pipkin, is a recognized authority, versed in the dynamic evolution of electronic control and information transfer.

Larry Dickerson, Armstrong International

Larry Dickerson, Senior Application Engineer at Armstrong International in Three Rivers, Michigan. Has been a part of the Armstrong International team for the last 5 years, Larry has over 18 years of experience working with steam and condensate systems.

Terrence Vacanti, Arise Inc.

Over 30 years of experience in Loss Control for three major property and casualty insurance carriers and one boiler and machinery carrier. Extensive experience in managing all lines loss control departments including claims handling experience for boiler & machinery. Background includes consulting with national accounts, national account coordination, managing branch staff and vice president accountabilities.

Greenwood

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