



# INNOVATIVE COMBUSTION TECHNOLOGIES, INC.

Innovative Combustion Technologies offers a variety of training seminars as well as Plant Specific training programs for Operations and Maintenance personnel. Our training schedule can be made flexible to accommodate operating shift schedules for the least amount of disruption of personnel.

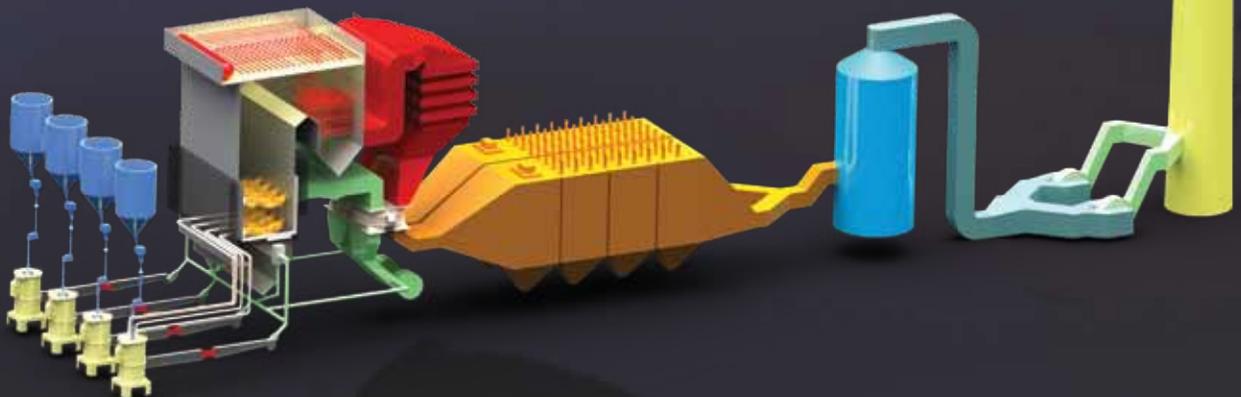
## About the Instructor

Richard Storm, the president and owner of Innovative Combustion Technologies, conducts all training seminars personally. Mr. Storm, has over 25 years of experience as a Consultant and Field Service Engineer. Mr. Storm, is recognized worldwide as a "system expert" of boiler and combustion system equipment relating to fossil-fired power plants ranging in size from 50mw to 1300mw.

Mr. Storm is often asked to speak at national and international conferences due to his extensive knowledge in combustion engineering and the effects on boilers and pulverizers when burning sub-bituminous coal. Recently, Mr. Storm has lectured in front of the PRB Users Group USA, the Asian Sub-bituminous Coal Conference in Hong Kong and other conferences.

## Plant Specific Training

Our seminars provide each attendee with valuable plant specific information. We prepare site specific training material which focuses on the type of boilers, pulverizers and other auxiliary equipment found in each plant. As part of the training we also include topics that are of special interest or concern. Common topics include but are not limited to: slagging, heat rate, fuel flexibility, combustion quality, tube failures, environmental compliance, generating capacity and more.



## **Pulverizer Maintenance & Operation Training**

Our Pulverizer Maintenance and Operation training covers the following:

- Relationship of Pulverizer and Unit Performance
- Pulverizer Capacity and Performance
- Pulverizer Inspection Guidelines
- Primary Air Flow and its Effect on Boiler and Pulverizer Performance

## **Coal-Fired Boiler & Performance Training**

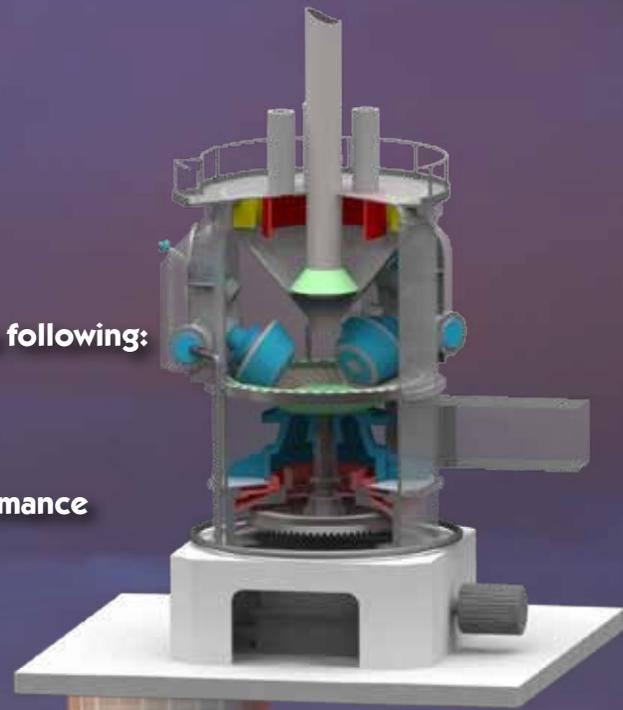
This seminar covers the following topics:

- Achieving Optimum Combustion, Plant Performance and Boiler Design Challenges
- Boiler and Coal Mill Testing Techniques to Optimize Combustion
- Influences of Coal and Ash Quality on Boiler Performance
- Causes and Prevention of Boiler Slagging and Fouling
- Basic Combustion Theory and Control of NO<sub>x</sub> Emissions
- Achieving Optimal Coal Mill Performance; Findings and Recommendations of Recent Mill tests
- Regenerative Air Heater Operations and Performance
- Interrelationships between Operations, Maintenance and Boiler Reliability

## **Heat Rate Analysis & Improvement Training**

This comprehensive and customizable training seminar addresses the following topics:

- Interrelationships between Efficiency, Capacity, Reliability and Environmental Factors
- Heat Rate and Generator Efficiency
- Plant Heat Rate Measurement
- Optimum Combustion and Effects on Heat Rate
- Understanding the Interrelationships of Cycle and Fuel Impact on Combustion, Reliability and Plant Emissions



Innovative Combustion Technologies, Inc. (ICT), founded in 1993, is an established, results-oriented company that provides boiler testing, combustion troubleshooting, environmental services, consulting, specialized test equipment, and training services to fossil-fired power plants and industrial installations. Combustion problems or opportunities for improvement often develop unexpectedly and most plants do not have combustion experts or testing equipment on hand to quickly troubleshoot combustion challenges.

ICT provides real expertise and specialized testing equipment to meet our customers' needs. We are practical "coveralls, tape measure, and flashlight" engineers and technicians that concentrate on identifying and correcting the problem with existing equipment by using proven and practical field solutions.



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