

### Course Topics:

- Basic Steam Generation
- Evolution of Steam Generators
- Boiler Fundamentals & Design
- Water & Steam Properties
- Basic Thermodynamics
- Boiler Reliability
- The Fundamentals of Combustion
- Typical Plant Performance Challenges
- Comprehensive Diagnostic Testing
- Heat Rate Awareness
- Applying the Essentials
- Coal Quality Fundamentals
- Coal Pulverizers

- Boiler Design
- Fuel / Ash Properties
- The Solid Fuel Injection Systems Approach to Air & Fuel Flow Management
- Low NO<sub>x</sub> Firing Systems
- Biomass Combustion
- Case Studies
- Circulating Fluidized Bed Boilers (Time Permitting)
- Oil & Gas Firing (Time Permitting)
- Energy, Economics and the Environment (Time Permitting)

### Guest Presenters:



**NEUNDORFER**  
PARTICULATE KNOWLEDGE



**\$995 per person**  
**10% off groups of 5 or more**

Early Bird Discount:

10% Off Before: December 10, 2010



Storm Technologies, Inc.  
411 North Depot Street  
Albemarle, NC 28001  
Office: 704.983.2040  
Fax: 704.982.9657

**Upcoming 3 Day Short Course**

Large Electric Utility Boiler Combustion  
and Performance Optimization

**[www.stormeng.com](http://www.stormeng.com)**

# Instructors:

Richard (Dick) F. Storm - CEO of Storm Technologies, Inc., is a registered PE with over 40 years experience in the industry. This experience has been accumulated as a results and start-up engineer for OEMs, as a principal engineer and superintendent of operations for a major utility, and as a department head for a technical services department of a boiler maintenance contractor. These experiences preceded the last 17 years at Storm Technologies, Inc.

Danny Storm serves as Vice President of Storm Technologies, Inc. with over 20 years of experience. His experience includes conducting combustion optimization programs and providing engineered solutions for utility and industrial plants. As a seasoned professional in the industry, Danny's expertise has been refined by leading numerous field service testing projects, developing fan-boosted OFA systems from concept to completion, and producing pulverizer performance components and airflow management systems for large steam generating plants. Danny has degrees in Mechanical Drafting and Design and Mechanical Engineering Technology.

Stephen Hall is a Senior Project Engineer who is also a registered professional engineer. He has worked in the field leading numerous domestic and international service projects that focus on the topics covered in this course. Stephen graduated from North Carolina State University with a degree in Mechanical Engineering.

Therefore, the topics discussed are presented from a perspective of design, best operation, maintainability, objectivity and with a practical focus on getting the most cost-effective RESULTS!

Our Large Combustion Optimization Course is a one of a kind course that has been presented to thousands of people worldwide. This course is approved by the North Carolina and Florida boards of registration for engineers continuing professional development hours.

Participation in this short course is by invitation only

## (2) Day Advanced Location:

The Westin Hilton Head Resort & Spa  
Two Grassland Avenue  
Hilton Head Island, SC 29928  
Phone: (800) Westin-1  
(800) 937-8461  
Date: January 18-20, 2011  
Time: 7:00am to 3:00pm

**\$995 per person**  
**10% off groups of 5 or more**

# Registration:

To secure a seat for the short course, please fill out the bottom information and either e-mail, fax or mail your entry. For any further information, please feel free to call the office at (704) 983-2040.

Name(s) \_\_\_\_\_

Title(s) \_\_\_\_\_

Company and Plant \_\_\_\_\_

Address, City, State, Zip \_\_\_\_\_

Telephone Number \_\_\_\_\_ Cell Phone Number \_\_\_\_\_

Fax Number \_\_\_\_\_

E-Mail \_\_\_\_\_

Method of Payment (Circle): Company Purchase Order, Check or Credit Card (MasterCard/Visa/American Express)

PO \_\_\_\_\_ Credit Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_ Security Code \_\_\_\_\_ Type of Card \_\_\_\_\_

Note: If claiming PDHs, please enter PE License Number \_\_\_\_\_

Specific Questions/Interests \_\_\_\_\_

**Cost: \$995 per person**

Cost includes: Seminar materials, breakfast and lunch for each day (hotel, transportation and other meals not included).