

# Technical Automation Services Corp.

Presents

## Insight into Continuous Emissions Monitoring

### TASC—Technical Automation Services Corporation

Technical Automation Services Corporation is your single source provider for Turn-Key plant services. TASC has been a leader in the Plant Services Industry for over 17 years. We are committed to providing quality products and services right the first time, every time. Our skilled and dedicated staff has years of education and experience which keeps us on the cutting edge of technology and allows us to bring the most advanced products and services to our loyal Customers. We specialize in Analyzer Systems Integration, Technical Services & Support, Training and Environmental Consulting & Testing. Since 1990, we have been providing quality products, personnel and services to our Customers.

### THE PROGRAM

This program reviews technical and regulatory issues associated with the field of continuous emissions monitoring. The seminar investigates new developments in instrumentation technology and CEM system monitoring. The course also explores how regulations influence system design and implementation.

During the two day class we will cover in detail objectives relating to 40CFR60 and the requirements for Continuous Emissions Monitoring. Including Theory of Operations for CEMS analyzers and CEMS Sample System design, operation, and troubleshooting.

### WHO SHOULD ATTEND?

This program is designed for:

- Engineers
- Maintenance Technicians
- CEMS Users
- Inspectors/Auditors

For more information or to register please call or email TASC

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Fee \$950.00 per person

2010

Lunch provided both days

“CONTINUOUS EMISSIONS MONITORING,  
2ND EDITION”  
Book Included

### THE INSTRUCTOR

JAMES JAHNKE

Dr. James A. Jahnke is an industry leader with over twenty-five years of experience. Using his knowledge of the most up-to-date technical and regulatory issues affecting the design, integration and certification of CEMS he has created a comprehensive program that is second to none. Currently, Dr. Jahnke is a consultant with Source Technology Associates of Research Triangle Park, NC who specialize in continuous and source emissions monitoring. In addition to numerous papers, reports, and studies on CEMS, Dr. Jahnke has written the book, "Continuous Emission Monitoring, 2<sup>nd</sup> Edition," published by John Wiley & Sons in 2000. This book can be found on the shelves of Manufacturers, Integrators and Environmental experts and technicians. Dr. Jahnke is serving as the Chairman of ASTM Committee on Source Monitoring and is the U.S. ASTM representative to the International Standards Organization

# Insight into Continuous Emissions Monitoring

## You will be able to:

- ◆ Identify regulations that mandate the use of CEM systems
- ◆ List and explain the applicability of analytical techniques used for the measurement of gases ( NO<sub>x</sub>, SO<sub>2</sub>, CO<sub>2</sub>, and HCl), mercury, metals, particulate matter, and flue gas volumetric flow
- ◆ Describe the applicability of sampling techniques (source-level extractive, dilution extractive, close coupled, and in-situ) in the measurement of gases and particulate matter as well as the advantages and disadvantages of each
- ◆ Identify technical and regulatory problems associated with monitoring emissions present at low concentration levels
- ◆ Develop a program for specifying and purchasing a CEM system
- ◆ Identify the key features necessary in a CEM system quality assurance plan

## You Will Cover:

- ◆ **Regulatory Requirements for CEM Systems**
  - Implementing Regulations
- ◆ **Status of Sampling Systems**
  - Source Level Extractive Systems | Dilution Systems | In-situ Path Monitoring System
- ◆ **Status of Analytical systems**
  - Electro-Optical and Electro-Chemical Techniques | Methods for Continuously Monitoring Particulate Matter | Metals Monitoring Techniques | Methods for Monitoring Organic Compounds
- ◆ **CEM Certification Requirements**
- ◆ **Specifying and purchasing a CEM System**