

EMISSION MONITORING INC.
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Raleigh, NC 27617-7503

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EMISSION MONITORING

2005

EMISSION MONITORING

2005

June 14-16, 2005
Durham, North Carolina

PRESENTED BY:

Dr. James A. Jahnke
SOURCE TECHNOLOGY ASSOCIATES

James W. Peeler
EMISSION MONITORING INC.

SEMINAR FEE \$1,195 for payment received by May 14, 2005; \$1,295 thereafter. MasterCard or Visa accepted. A \$75 discount will be given to additional registrants from the same company. Fees include all program sessions, course materials, and continental breakfast, lunch, and refreshments each day.

CANCELLATIONS Substitutions may be made at any time. Refunds (minus a \$95 processing fee) will be granted on written cancellations received by May 14, 2005. No refunds thereafter. If Emission Monitoring Inc. or Source Technology Associates is forced to cancel the seminar for any reason, registration will be refunded in full. Airfare and/or hotel reservations remain the responsibility of the registrant.

ACCOMMODATIONS Rooms are being held at the Durham Marriott at the Civic Center at \$99 per night, single or double. Reservations may be made directly with Marriot Worldwide Reservations at (800) 228-9290 or in-house reservations at (919) 768-6022. Indicate that you are attending the "Emission Monitoring Inc. Seminar" to be guaranteed this special rate and be recorded as members of the group. Reservations must be made by May 14, 2005 to receive the reduced rate.

**EMISSION MONITORING SEMINAR
REGISTRATION**
June 14-16, 2005

Send registration information below or questions to:
E-mail: jimpeeler@emissionmonitoring.com
Fax: 919-782-9476 Voice: 919-781-3824
Mail: Emission Monitoring Inc.
8901 Glenwood Avenue
Raleigh, NC 27617

NAME _____ COMPANY _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
TELEPHONE _____ FAX _____
CREDIT CARD NUMBER _____ EXP. DATE _____
NAME OF CARDHOLDER _____ MasterCard VISA
SIGNATURE OF CARDHOLDER _____ Receipt Required

I would like information on future seminars. information on Interactive Test Method Simulation Software.

GETTING THERE

The Durham Marriott at the Civic Center is located in downtown Durham, just 20 minutes from the Raleigh-Durham airport. Exit Gregson St. off I-85 and Roxboro/Magnum streets off Durham Expressway. Detailed directions and shuttle service information will be provided with your confirmation letter.

Strategic Approaches and Regulatory Updates for:
**CEMS for NO_x Budget, Acid Rain, and NSPS
CAM, and MACT Standards, Mercury,
Opacity and Continuous Particulate Monitoring**

A seminar providing independent and objective perspectives for
Meeting Emission Monitoring and Testing Challenges

Who Should Attend?

This seminar is designed for ...

industry, agency, and vendor personnel involved in emission monitoring programs. It provides the knowledge about CEM systems and alternatives for you to do your job well, whether that job is selecting equipment, observing a certification test, writing a quality assurance plan, conducting an audit, developing a new monitoring program or resolving CAM, periodic monitoring or MACT emission monitoring issues.

This seminar is for...

- Plant Managers
- Environmental Compliance Managers
- Environmental Engineers
- CEM Specialists
- Instrument Technicians
- Equipment Suppliers
- Source Test Observers or Auditors
- Permit Writers or Reviewers

If you work with emission monitoring systems, or supervise those who do, this seminar will be invaluable to you.

James A. Jahnke, Ph.D.

has taught and developed training programs in emissions monitoring since 1976. A recognized expert in CEM systems, he has contributed greatly to the understanding of this technology through his popular lectures and publications. He is Chairman of ASTM D22.03 Subcommittee on Source Monitoring, U.S. ASTM representative to the International Standards Organization committee on Source Monitoring, former chairman of the Air and Waste Management Association Source Monitoring Committee, and was technical program co-chairman of the four AWMA/APCA specialty conferences presented on CEM systems. With Source Technology Associates, he consults on a wide range of regulatory and technical issues, in addition to preparing CEM system technical specifications and quality assurance plans and conducting system audits. Dr. Jahnke has a B.S. degree from the University of Rochester, NY and a Ph.D. degree in physical chemistry from the University of Chicago.

James W. Peeler

has 30 years of experience in emission measurements. He has frequently led workshops on CEM for industry and agency audiences. He is nationally recognized as an expert in continuous emission monitoring, instrumental methods, alternative monitoring techniques, and quality assurance. He currently chairs the ASTM Task Group that developed a standard practice for opacity monitors. Mr. Peeler was inducted into the Source Evaluation Society Hall of Fame in 1993. Mr. Peeler founded Emission Monitoring Inc. in 1994 as an independent consulting company providing specialized services in the field of stationary source emission monitoring and measurement. He previously managed a major emission testing company. Mr. Peeler has B.S. and M.S. degrees in mechanical engineering from the University of Virginia.

Roger Shigehara

has over 36 years of experience in emission measurements. He wrote many of the test methods and performance specifications published in the appendices of 40 CFR Parts 60 and 61. He has done technical research, management of in-house and contract projects on manual and instrumental methods and CEM systems. Mr. Shigehara developed "F Factors" which convert pollutant concentrations to mass/heat input units. He was a principal developer of the Emission Measurement Technical Information Center presently administered by the EPA. Mr. Shigehara has a B.S. in chemical engineering at Iowa State University and a M.S. in Environmental Engineering at Oregon State University.

Laura L. Kinner, Ph.D.

has over 18 years of experience in emission monitoring, methods development and testing. She has actively participated in research and development efforts for application of new instrumental testing technologies including Fourier transform infrared spectrometry (FTIR), GC and GC-MS instrumentation. Dr. Kinner has implemented these technologies for measurement of hazardous air pollutants from stationary sources, and has actively participated in the writing of new test methods. She chairs ASTM Task Groups that developed extractive FTIR and GCMS test methods. Dr. Kinner has a B.S. and a Ph.D. in chemistry from the University of Missouri.

EMISSION MONITORING 2005

Seminar Goal

To provide the attendee with a comprehensive understanding of state-of-the-art monitoring equipment, systems, and regulations in order to succeed in meeting new or existing responsibilities.

June 14-16, 2005

**The Durham Marriott Hotel
at the Civic Center
Durham, North Carolina**

Reference Materials

New!

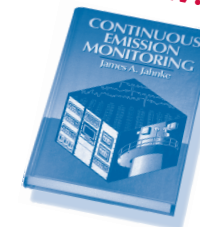
You will take back with you:

Continuous Emission Monitoring

by J. A. Jahnke

Year 2000, 2nd Edition

(published by John Wiley and Sons)



Seminar Notebook

edited by J. A. Jahnke and J. W. Peeler with reproductions of lecture slides, important reference documents, example exercises, and listing of current CEM system and analyzer vendors

CEM Systems Regulatory Documents

compiled by Source Technology Associates

**Plus the knowledge of how
to use these materials**

Self-Instructional Course for Instrumental Test Methods **RM SIMULATOR®**

Interactive Training Software for
EPA Test Methods 3A, 6C and 7E:
for SO₂, NO_x, CO₂ and O₂
is available to seminar participants for
\$200 (80% OFF list price).

AGENDA

Day 1

- 7:30 Continental Breakfast
- 8:00 Welcome and Introductions
- Market Trends and Developments
- Overview of Traditional Monitoring Regulations
- Post 1990 Emission Standards and Monitoring Regulations
- The Acid Rain & NO_x Budget Programs
- LUNCH (Provided)
- Principles of Opacity Monitors
- Opacity Monitor Design Specifications, Certification Procedures and Audits
- 5:00 Adjourn

Day 2

- 7:30 Continental Breakfast
- 8:00 Compliance Assurance Monitoring (CAM)
- Particulate Matter (PM CEMS)
- PM Test Methods and CEMS Calibration
- Extractive Systems - Source Level and Dilution Systems
- LUNCH (Provided)
- Extractive Analyzers for Monitoring Gases
- Flow Monitoring/Flow-to-Load Test
- Mercury Monitoring
- 5:00 Adjourn

Day 3

- 7:30 Continental Breakfast
- 8:00 In-Situ Systems
- MACT Standards and HAP Measurement
- Data Acquisition and Handling Systems
- LUNCH (provided)
- CEM System Certification
- Writing a CEM QA Manual
- Question and Answer Period
- 3:30 Adjourn

For more information about the seminar, call

Source Technology Associates (919) 929-4447 or Emission Monitoring Inc. (919) 781-3824

Visit www.emissionmonitoring.com for more information and software demo.