



Presents

2009 NORTH CAROLINA



environmental health and safety school

August 24 - 25, 2009

McKimmon Conference & Training Center
NC State University

Raleigh, NC

In Cooperation with:



What Is The School?

The 8th Annual North Carolina Environmental, Health & Safety (EHS) School is a unique forum for environmental, health and safety (EHS) professionals to obtain individualized information about the latest issues affecting their businesses in North Carolina.

At a single location, the school offers seven classroom sessions addressing current issues in air quality, water quality, solid waste, hazardous waste, hazardous material transportation, occupational safety and health, energy, and sustainability.

Within each session, there are three concurrent tracks with courses ranging from very basic topics for those just starting out to advanced topics for the more experienced attendee. Over 30 recognized experts on complying with North Carolina's environmental, health and safety laws and regulations will be teaching the twenty-one classroom sessions.

During the school, attendees personalize their schedule by choosing any combination of seven classroom courses to attend from the list of twenty-one courses being offered. This unique training format allows each attendee the flexibility to select a schedule tailored to his or her current interests and needs.

The school format is also ideal for attendees responsible for compliance with several EHS laws or regulations or those simply seeking cross-training on an unfamiliar EHS issue.

In addition to the concurrent classroom courses, the school will begin with a general session on Monday, August 24. This session will feature a presentation by NC DENR Secretary Dee Freeman (invited) about the current and future activities of his department. The school will close on Tuesday, August 25 with a luncheon featuring a keynote speaker.

Between classes the attendees can visit the Exhibition Hall featuring leading vendors offering a full range of EHS products and services to check out and compare.

Who Should Attend?

Anyone whose responsibilities include assuring that their company or organization is complying with environmental, health or safety laws and regulations will benefit from the authoritative and timely information provided at the school. If your job requires you to understand environmental, health or safety laws and regulations, you need to attend this school.

With twenty-one different courses, taught by recognized experts, there's something for everyone regardless of experience or responsibilities. For those new to the field, there is a basic track that provides an excellent overview of air, water, waste, safety, health and management issues.

The 2009 EHS School is the ideal conference for manufacturers, plant managers, small business operators, environmental technicians and specialists, environmental managers, compliance officers, industrial safety managers, consultants, attorneys, commercial real estate professionals, land developers, POTW operators, and state and local regulators.

Benefits Of Attending

- Obtain practical compliance information directly from the experts including many of the key regulators who administer and enforce North Carolina's environmental, health and safety programs on a day-to-day basis.
- Learn the compliance advice top environmental, safety and health experts in the private sector are giving their companies, organizations, and clients.
- Take home real world information that you can use the next day by picking and choosing courses that are most important to you and your company or organization during the school. No pre-selection of courses is required.
- Discover the top priorities and future initiatives of North Carolina DENR and the North Carolina DOL directly from the heads of those organizations and their division directors.
- Network with fellow environmental, health & safety professionals.
- Network with key regulators in a relaxed, informal setting.
- Discover the latest and greatest in EHS-related products and services from a variety of exhibitors.

Materials Provided

The registration fee includes: a CD containing detailed information on each of the 21 topics covered during the school, lunch both days of the school, breaks, an evening reception, and continental breakfast.

Air Quality Courses

AQ-1: Introduction to the Basics of Air Permitting and Overview of Control Technologies

This session will include presentations by the North Carolina Division of Air Quality (NCDAQ) staff and industry representatives. Topics addressed will include North Carolina and federal regulations affecting air emission units and the basics of obtaining a permit and providing compliance demonstrations with continuous and parametric monitoring and stack testing.

AQ-2: Impacts of the Upcoming Ozone Nonattainment Areas on Industrial Permitting in North Carolina

EPA recently promulgated a more stringent ozone air quality standard and many areas in North Carolina may be designated as ozone non-attainment as early as March 2010. This session will provide an overview of the new ozone standard and will discuss the expected non-attainment areas under the new standard. In addition, this session will focus on the requirements for permitting new and modified major emission sources in non-attainment areas. Topics will include applicability determinations, discussion of lowest achievable emission rate (LAER) determinations, emission offsets, alternative sites and process analyses, and the latent affects of RACT for existing sources in these new nonattainment areas.

With the expectation of additional ozone nonattainment areas, many counties in NC will also be facing Reasonably Available Control Technology (RACT) rule requirements in the next several years. These RACT requirements will implement new limitations for NO_x and VOC that may possibly require new or additional control techniques for NO_x and VOC. This session will provide an overview of the existing RACT rules that will affect the new nonattainment areas as well as new RACT requirements that could affect existing and new sources in these nonattainment areas. This session will also provide an overview of the NO_x and VOC control techniques that can be expected as a result of RACT in these nonattainment areas.

AQ-3: Boiler MACT & NC Air Toxic Related Issues

On February 24, 2009, the NC Department of Justice (DOJ) provided an interpretation to the NC Division of Air Quality that certain existing major sources of HAPs are subject to the CAA Section 112(j) Case-by-Case MACT

Requirements. This DOJ determination would be applicable to boilers at major HAP sources as well as brick kilns at major HAP sources due to the vacature of NESHAP rules for these two classifications of emission sources. Section 112(j) has a two step application process, which is commonly known as Part 1 and Part 2 applications. This session will provide an update on the application process, the 112(j) requirements for major sources of HAPs and the DAQ requirements under this regulation. Additionally, sources that receive a 112(j) determination in a permit issued by DAQ could have up to 8 years to comply with any final rule. The issuance of 112(j) determinations and the future applicability to Boiler MACT and the Brick MACT will be discussed in this session.

The D.C. Court of Appeals vacated the Boiler MACT in late 2007. EPA will be proposing a new Boiler MACT rule in late 2009. This session will also provide an update on the regulatory process, development of a new Boiler MACT proposal and a summary of any draft requirements that are available in August. The North Carolina Division of Air Quality will be preparing revised regulatory language to remove the combustion source exemption for the NC toxics rule for new and modified existing sources. This session will provide an overview of what this rule change means to industry in North Carolina.

AQ-4: Climate Change/GHG Inventories/EPA's GHG Reporting Rule

This session will provide an overview of climate change and carbon management in the United States and will provide updates and an overview of EPA's proposed GHG Reporting Rule. Any updates to the NC GHG reporting requirements will also be covered in this session.

AQ-5: Current CAA Legal & Enforcement Issues

This session will provide a detailed look at recent legal issues, court decisions, and enforcement cases pertaining to many of today's air quality regulations and requirements such as 34 MACT source categories. This session will also examine a number of changes that have occurred under the New Source Review (NSR) program. Such topics will include new interpretations of aggregation and fugitive emissions. Other hot topics that are expected to be decided by the new administration such as the final Part II implementation plan for Pm-2.5 and the potential regulation of CO₂ as a CAA pollutant will also be discussed in this session.

Energy & Sustainability Courses

ES-1: Energy & Sustainability 101 – Keys to Competitiveness

This session will discuss key concepts pertaining to energy management and environmental sustainability and will help EH&S managers understand how companies can reduce costs and achieve competitive business advantages through sustainable best practices. Using a panel discussion format, industry experts will share real-world case examples regarding sustainability program implementation with an emphasis on the benefits to the company's bottom line.

ES-2: Cashing In on Renewable Energy Systems in North Carolina

This session will assist companies with the evaluation and selection of renewable energy systems to cut energy costs, reduce GHG emissions, and improve sustainability profiles. New state, federal, and local incentives and credits can make these systems financially attractive, but there are pitfalls and a proper understanding of the features and merits of the various technology options is essential to making sound decisions on selection, design and implementation. Speakers will review the various financial incentives available, review the technology options, and discuss strategic options along with specific case studies.

ES-3: Using Energy Management Systems & Auditing to Cut Costs and Thrive

This session will provide examples of how energy audits can enable a company to prioritize energy reduction programs in a way that improves the bottom line. Speakers will present the benefits of implementing an energy management system for cost savings and greenhouse gas emissions mitigation. The session will lay out a step-by-step strategy for auditing your facility to identify energy inefficiencies and to identify improvements to reduce costs. Speakers will focus on operations and equipment, utility billing and metering strategies. They will discuss a list of targeted operational and capital improvements along with simple payback estimates for each improvement identified. Attendees will understand how to choose the improvements that fit their particular goals. Using published information and recent case studies, this course will also present reasonable expectations related to potential energy cost savings.

ES-4: Optimizing EH&S Management Systems in Lean Times

This session focuses on how EH&S management systems can be optimized to improve the ability of manufacturing companies to save money. For organizations trying to cost-effectively address environmental issues along with occupational health/safety issues, an integrated management system can often make sense for risk reductions and cost savings. This session examines how such efficiencies can be accomplished, using case studies illustrating how companies have reduced operating costs via the successful integration of an ISO 14001 environmental management system and OHSAS 18001 health and safety management system.

ES-5 - Carbon Mitigation & Offsets

This session will provide a how-to guide for industry on GHG emissions offset generation and trading. The course will present leading-edge practices for developing and implementing corporate climate change strategy, as appropriate to industrial organizations. The course will provide a brief overview of both US (federal and state) and international regulatory requirements to provide a platform for understanding regulatory pressures. The course will include examples on developing comprehensive climate change management programs, evaluating and implementing mitigation options, utilizing emissions trading strategies, handling public disclosure of climate change data, managing supply chain issues, and integrating climate change strategy with energy management strategies.

Continuing Education Credits

Based on previous EHS Schools we expect to receive continuing education credits from the following:

1. North Carolina State Bar
2. North Carolina Water Pollution Control Systems Operators Certification Commission
3. American Board of Industrial Hygiene (ABIH)
4. Board of Certified Safety Professionals (BCSP)

Other professional organizations may allow members to self-certify to attendance at qualifying continuing educational programs. Such organizations may ask for verification from its members. To assist you, we provide a certificate of attendance, all course material (on CD), and a list of instructors & their qualifications (on CD).

Occupational Safety & Health Courses

OSH-1: The Top Ten Most frequently Cited OSHA Violations in North Carolina

This session will provide an awareness of OSHA's most recent Top Ten General Industry Citations in North Carolina. Participants will gain knowledge of these OSHA violations to successfully assist in avoiding costly OSHA citations and fines. Furthermore, you will learn how to correct OSHA's most frequent violations, ensure that your records are up to date, and gain understanding of the penalty system and fine reduction factors used by OSHA. As a second topic this session will cover some of the more recent OSHA Letters of Interpretation. While not having the force of law, these letters do provide an insight into how OSHA would enforce a particular standard and how to approach abatement of hazards.

OSH-2: Industrial Hygiene for the Non-Industrial Hygienist and Understanding OSHA's PELS

Using the traditional paradigm of recognition, evaluation and control, this course will provide an overview of the basic concepts that contribute to a fundamental understanding of industrial hygiene. Topics covered will include basic toxicology, standards, TLV's and guidelines, sampling methods and interpretation, control strategies, and special, non-traditional industrial hygiene concerns. At the conclusion of the course the student should have a practical understanding of industrial hygiene principles and practices and a familiarity with the terminology and basic concepts of health hazard recognition, evaluation, and control methods. The rationale behind North Carolina's recent decision to rescind the North Carolina PELs and revert to the federal standards will be discussed.

OSH-3: The New Health and Safety Management – Systems Style

Progressive approaches to Health and Safety management have moved in a new direction over the past decade; away from a specification based compliance strategy to a performance based, management systems approach. While code compliance is still an integral aspect of health and safety, the introduction of risk assessment principles and auditable management systems is playing a more dominant role in health and safety programs, both in the US and internationally. The session will provide an overview of current management systems consensus standards, including ANSI

Z-10, BS-8800 and OHSAS 18001. In addition the presenter will relate his recent real world experience in assisting in the development of an integrated EHS management system regulatory framework, currently underway in the United Arab Emirates. This new approach to regulation solves many of the difficulties of traditional regulatory structures, and is the new clear direction in international EHS regulation.

OSH-4: Controlling Medical and Worker's Compensation Insurance Costs in the Industrial Setting

This session will address the increasing need for the development of worksite health promotion programs in the industrial setting and the use of creative avenues in medical and worker's compensation insurance policies to control rising insurance costs. The role of the occupational health professional, both within and outside of the work place to reduce/minimize medical insurance claims will also be addressed. Benefits of worksite health promotion programs will be discussed, such as containing health care costs, reducing absenteeism and improving illness and injury rates, while enhancing job performance and worker productivity. Suggestions for designing and developing health promotion programs will be discussed with emphasis on factors unique to the industrial setting. Examples of health promotion activities including the organization of "health and safety industrial fairs" will be presented.

OSH-5: How to Be an Effective Safety Manager

This session will focus on the importance of selecting contractors with excellent safety records during facility expansion, "shut-down" or "outage" construction projects. Construction contractors are required to adhere to the requirements of OSHA standards delineated in 29 CFR 1926, and the owner of the project is ultimately responsible for safety on the construction site. You will learn how to interpret a contractor's EMR, OSHA 200 logs and in-house safety programs. The session will identify language that should be inserted into bid specifications to ensure that a proper evaluation of each contractor's safety record is conducted and that the construction contractor maintains the proper liability insurance. Additionally, you will learn how to research the OSHA web page to review OSHA inspection findings on past projects for each contractor. Finally the course will provide insight into the liability that the project owner faces in the event of contractor injury or fatality.

Waste Management Courses

WM-1: Hazardous Waste Fundamentals: What Generators Need To Know

Back by popular demand, this course will cover basic generator responsibilities for managing solid, hazardous and universal wastes. The purpose of this lively course is to provide a broad overview of applicable generator requirements to persons who have little to no familiarity with hazardous waste management. This is a repeat of last year's course; so, if you are looking for more challenging information, please sign up for WM-2: Waste Rules Regulatory Update.

WM-2: Waste Rules Regulatory Update

The focus of this course will be to provide an update on recent, proposed and anticipated rulemaking and legislation at the state and federal level which could impact waste management programs in North Carolina. Dexter Matthews, Director of the Division of Waste Management will lead the session with speakers from the division's haz-

ardous waste, superfund and brownfields programs. Specific topics would include the new Definition of Solid Waste, Universal Waste, Recycling bans, Inactive Hazardous Sites clean ups, Risk based remediation, etc.

WM-3: Transporting Hazardous Materials By Rail

For companies that ship Hazardous Materials (HAZMAT), a comprehensive and compliant HAZMAT Shipping Program must be adopted. This session will cover the basic requirements for shipping hazardous materials with an emphasis on railroads, emergency preparedness, and security considerations.

Water Quality Courses

WQ-1: Basics of Wastewater Permitting

Whether you are an experienced environmental professional or just starting, this course will benefit your professional development through a detailed discussion of the basic requirements for wastewater dischargers. North Carolina and federal regulations will be covered by staff from the North Carolina Division of Water Quality (DWQ). Pretreaters discharging to a POTW will learn about EPA's permit streamlining regulation from Deborah Gore, and direct dischargers will receive the basics from Tom Belnick.

WQ-2: Spill Prevention, Control, and Countermeasures (SPCC) Plans: Advanced Course and Practices

Advanced environmental professionals will enjoy this course. It is a detailed breakdown of the more complex SPCC requirements. Case studies and examples will be used to flesh out the more complicated provisions of the SPCC requirements.

WQ3: Water Quality Issues and Revised MS4 General Storm Water Permit

This course is intended for the plant EHS professional working with wastewater permitting compliance requirements on a day-to-day basis, including the obligation to comply with recordkeeping and monitoring requirements in NPDES and General Storm Water permits. Recent developments in permit strategy focused on water quality concerns will be covered. Proposed revisions to the General Storm Water permit by EPA Region 4 will be discussed.

Tuition & Registration

Standard Tuition: \$299.00

Discounts:

MCIC member discount \$40.00

Early Bird discount \$25.00

(Payment received before July 24, 2009)

State or Federal Government discount \$ 50.00

Late Fee: \$50.00

(Registration or payment received after August 14, 2009)

All fees are per person

No refunds for cancellations. Substitutions are welcome.

Full payment of the fee must be received by July 24, 2009 to qualify for the Early Bird Discount. Registrations or payments received after August 14, 2009 are subject to \$50 late fee. By registering you agree to be responsible for payment of all registration fees even if you do not attend the 2009 EHS School.

To register electronically:

Go to http://mccicnc.org/EHS_School.

To register by fax or mail: Complete the enclosed registration form. Fax to: 919-834-8268 or mail to: MCIC – 2009 EHS School, 620 N. West St., Suite 101, Raleigh, NC 27603

School Schedule

Monday, August 24, 2009

8:30 a.m. - School Registration begins:
Exhibitor Hall Opens

9:00 a.m. - Opening Session - Secretary's Forum

10:00 a.m. - Break (In Exhibitor Hall)

10:15 - 11:30 a.m. - Concurrent Session 1

11:30 a.m. - Buffet Lunch (In Exhibitor Hall)

12:30 - 1:45 p.m. - Concurrent Session 2

1:45 p.m. - Break (In Exhibitor Hall)

2:15 - 3:30 p.m. - Concurrent Session 3

3:45 - 5:00 p.m. - Concurrent Session 4

5:00 - 6:00 p.m. - Reception (In Exhibitor Hall)

Tuesday, August 25, 2009

7:00 a.m. - Continental Breakfast (In Exhibitor Hall)

8:00 - 9:15 a.m. - Concurrent Session 5

9:15 a.m. - Break (In Exhibitor Hall)
Exhibitors Award Door Prizes

9:45 - 11:00 a.m. - Concurrent Session 6

11:15 - 12:30 p.m. - Concurrent Session 7

12:30 p.m. - Lunch - Keynote Speaker

1:45 p.m. - Door Prize Drawing
(Must be present to win)

2:15 p.m. - School Adjourns

Facility & Hotel Information

There are over 25 hotels within a 10 minute drive of the McKimmon Center. A list of these hotels is available on the McKimmon Center Web site at: <http://www.mckimmon.ncsu.edu/mckimmon/hotels.html>. There are no hotels on site or within walking distance.

The official hotel for the 2009 EHS School is the: Hampton Inn & Suites Raleigh/Cary, 111 Hampton Woods Lane, Raleigh, NC 27607; Tel: 919-233-1798. Hotel Web Site: www.hampton-inn.com/hi/cary.

Mail or Fax Registration Form

2009 North Carolina Environmental Health & Safety School

Monday, August 24 and Tuesday, August 25, 2009

McKimmon Conference and Training Center, Raleigh, North Carolina

1. Registration Information (Please Print)

Name: _____

Company: _____ Telephone: _____

Address: _____

City: _____ State: _____ Zip: _____

E-mail: _____ (required)

2. Tuition

\$299.00 – Standard

Discounts

\$40.00 - MCIC Member Discount

\$25.00 - Early Bird Discount (Payment received before July 24, 2009)

\$50.00 – State or Federal Government Employee Discount

\$ _____ - Subtotal (\$299 minus any applicable discounts)

\$50.00 - Late Fee - (Registration or payment received after August 14, 2009)

\$ _____ - **Total Due** - (Subtotal plus any Late Fee) Due August 14, 2009

3. Payment Options (Mail or fax this form to MCIC at 919-834-8268)

All amounts are per person. **No refunds for cancellations.** Substitutions are welcome. Full payment of the tuition must be received by July 24, 2009 to qualify for the Early Bird Discount. Registrations or payments received after August 14, 2009 are subject to a \$50 late fee. By registering you agree to be responsible for payment of all registration fees even if you do not attend the 2009 EHS School.

Check Enclosed (Payable to "MCIC")

Our Tax ID # is 561612915

Mail to: MCIC

Attention: 2009 EHS School
620 N. West Street, Suite 101
Raleigh, NC 27603

Credit Card (Visa or MasterCard Only)

Account #: _____ - _____ - _____ - _____

Exp. Date: ____ / ____ CVV2 Number: ____ (3-digit code from signature strip on back of card)

Name on Card: _____

Signature: _____