



*Newsletter of the Delaware Valley Chapter of the Air & Waste Management Association*

## DVC AWMA Board 2007-08

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## DVC December Regulatory Review Meeting Highlight: Insight into Pennsylvania’s Waste Regulations

On December 11, 2007 the Delaware Chapter held its annual regulatory update, which included an update on the status of discussions for PA DEP’s proposals for a comprehensive update of the Residual and Solid Waste Regulations. Laura Henry, Program Specialist, Municipal and Residual Waste Division, Bureau of Waste Management, provided valuable insight into the agency’s intent and current discussions on potential regulatory changes. Some of the proposed modifications to the existing rules may include:

- Chapter 271 definition of waste change
- consolidated municipal and residual waste chapters
- development of additional permits-by-rule as component of a permit hierarchy

- bans of some commodities from disposal in landfills (i.e. aluminum, white goods, high-grade paper, PET and HDPE plastic bottles, land clearing and grubbing waste, wood pallets, CRTs and waste oil, glass bottles and jars, shredded tires and yard waste)
- new development requirements for landfills
- revised landfill permit terms.

The time frame for adoption does not anticipate promulgation in calendar 2008. Comments are being continually accepted in expectation of a final draft by summer or fall 2008. Further information can be obtained from Steve Socash (ssocash@state.pa.us) or Kim Hoover (khoover@state.pa.us) in the Central PADEP.



## Upcoming Specialty Conference on Climate Change

In recent years, the A&WMA has hosted a number of activities related to climate change. In September of 2005, an international specialty conference was held in Calgary, Alberta on “Addressing the Implications of Moving Towards a Climate Friendly Future.” The conference featured regulators, energy providers, and technology providers discussing strategies for mitigating climate change over the coming decades. In November of 2006, A&WMA’s Environmental Manager (EM) Journal was focused on “Greenhouse Gases: Reducing GHGs through Carbon Trading and Other Voluntary Initiatives.”



Conference to be held April 2-3 in VA.

The August 2007 issue of EM discussed the historic Supreme Court ruling on the authority of USEPA to regulate greenhouse gases as air pollutants.

This year, the A&WMA will be holding an ambitious specialty conference entitled “The Climate Policy Puzzle: Putting the Pieces Together.” To be held in Arlington, VA on April 2-3, the conference will bring together state, federal, and local regulators with industry and the environmental community to consider how best to link climate, energy and environmental policy. The conference will be keynoted by Senator Joseph Lieberman and will be presided on by A&WMA President C.V. Mathai. A series of speaker panels will consider the following: regulatory options for greenhouse gas emission reduction; how these options interface with existing environmental programs; what can be learned from programs already implemented internationally; what roles should emission trading and carbon pricing play; and how can government, industry, and the other stakeholders work together to develop and implement climate change policy and programs. More information about the conference is available at the awma.org web site under “Events”.

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## The Ever Changing World of Nanotechnology

Dr. Randy Weinstein presented a lively introduction to nanotechnologies at an A&WMA Delaware Valley Chapter breakfast meeting on January 30, 2008.

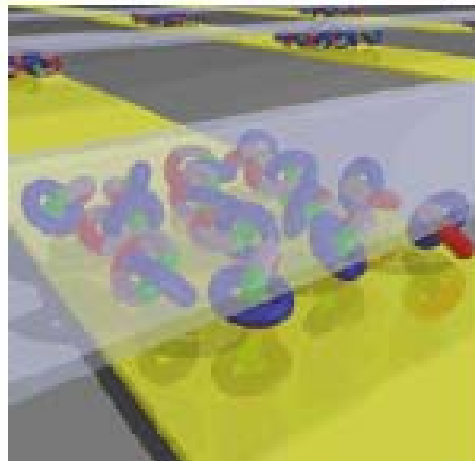
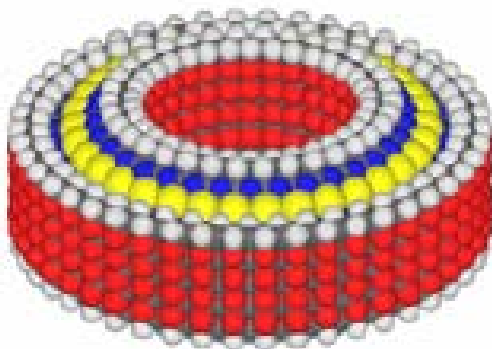
Nanotechnology is the manufacture of materials and machines on the nanometer length scale. Nanotechnology holds promise in creating the next major breakthroughs in medicine, biotechnology, computers, defense, environmental remediation, sensors, robotics, stronger materials, catalysis, manufacturing, energy systems and more. Dr. Weinstein indicated that currently there are 325 consumer products that use nanometer particles in their manufacture. An estimated \$3 billion dollars is expected in research and development of nanotechnology.

Materials at nanoscale can be produced with radically different properties from the bulk materials, including melting point, freezing point, and electrical properties. The basic crystal structure of nanomaterials can be altered from the bulk materials in radical ways.

Among the applications that Dr. Weinstein reviewed were:

- Nanometals with specific changes in band gap energy. Such iron oxide particles are currently dispersed in groundwater to enhance trichloroethene degradation.
- Ferrofluids that make fluids magnetic.
- Liquid crystal panels that change their characteristics as voltage is applied to embedded ceramic particles.
- Glassy metals with an amorphous crystalline structure. Such materials do not rust.
- Carbon nanotubes and carbon nanoplates. The nanotubes are commercially used to provide emergency drinking water filtration. The nanotubes can also be used to reproduce the adhesive pads of creatures such as the gecko.
- Nanomachines that reproduce the motions of existing organisms.

Dr. Weinstein brought along and demonstrated some nanomaterials and their remarkable properties. He also discussed some potential implications of their use, such as their potential inhalation hazard, persistence in the environment after disposal, and potential difficulties in safely collecting and controlling their release during manufacture.



## Mark Your Calendar! Upcoming AWMA Events Winter/Spring 2008

The Delaware Valley Chapter Air & Waste Management Association has a number of upcoming events on a variety of topics. Don't miss this opportunity to learn more about how these will issues will impact you and participate!

**February 21, 2008 8:00- 10:00AM**

**Multimedia Auditing Breakfast Meeting @Exton, PA**

**March 5, 2008 8:00-10:00AM**

**Sustainability Seminar @ Exton, PA**

**April 24, 2008 5:00PM-8:00PM**

**APERG/DVC-MASS AWMA Scholarship Dinner @ Villanova, PA  
Villanova Conference Center**

**For more information on these events e-mail:**

michele.gehring@coterie-env.com

**Three ways to register for these events:**

1. Register online at [www.mass-awma.net/DVCevents.html](http://www.mass-awma.net/DVCevents.html);
2. Email completed registrations to [michele.gehring@coterie-env.com](mailto:michele.gehring@coterie-env.com); or
3. Mail or fax registrations to Jennifer Flannery at ERM (350 Eagleview Blvd, Suite 200, Exton, PA 19341-1155; (F) 610.524.7798)

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Also coming in 2008:

**May—Single Stream Recycling Workshop**

Past events this year have included:

January 30, 2008 Nanotechnology Breakfast Meeting  
December 11, 2007 Annual Regulatory Conference  
September 2007—DVC Social @ Great American Pub  
Lehigh Valley Environmental Innovations Conference



## Chapter Announces Scholarship Program—Apply Now! Spread the Word!

The Chapter is pleased to announce the availability of scholarship applications for this year. Over the years, the Chapter has awarded tens of thousands of dollars to area students in the environmental field and the long-running program continues for the 2007-2008 school year. The scholarships are open to:

- Students interested in pursuing a career in the environmental profession.
- Full time or part time students for the 2007-2008 school year.
- Undergraduate or graduate students.
- Must either reside in, or attend a college or university located within the Delaware Valley Chapter area (Eastern Pennsylvania, Southern New Jersey, or Delaware).

**The applications will be due by March 17, 2008**

Information and a copy of the application are available from Marj Fitzpatrick of IES Engineers at (610) 828-3078 or [mfitzpatrick@iesengineers.com](mailto:mfitzpatrick@iesengineers.com). If you are requesting an application via e-mail, please include "DVC Scholarship" in the subject line.



### SCHOLARSHIP APPLICATION REVIEWERS NEEDED

The Scholarship Committee is looking for members to help review scholarship applications for our Chapter's 2007-08 student scholarship program. The application reviews typically take 1-2 hours of your time and will be done in April 2008. This is an easy way to participate in Chapter activities – plus its fun to help spend someone else's money! Guidance will be provided for reviewing the applications. If you are interested or have any questions, please contact Marj Fitzpatrick of IES Engineers at (610) 828-3078 or [mfitzpatrick@iesengineers.com](mailto:mfitzpatrick@iesengineers.com). If you respond via e-mail, please include "DVC Scholarship" in the subject line.

## AWMA Membership—What's my options?

Interested in Joining A&WMA? No matter where you are in your career, A&WMA has a membership category that suits your needs. Brief descriptions of each membership category are provided below. For more information or to sign-up, please visit the A&WMA website and follow the "Join A&WMA" link in the side bar.



### Individual Membership - \$180/year

This full membership includes the following:

A print subscription to either *EM*, A&WMA's monthly magazine for environmental professionals, or the *Journal*, A&WMA's technical environmental journal;

Access to both EM and the Journal online;

Access to the online A&WMA membership directory;

Reduced pricing on A&WMA events and technical publications; and

Access to local networking events.

Access to online Career Center

### Affiliate/Young Professional Membership - \$93/year

For our younger professionals (under 27 years old), this membership includes all the benefits of full membership at a reduced price.

### Student Membership - \$35/year

This membership is designed for full-time undergraduate or graduate students and includes a print subscription to EM.

### Organizational Membership - \$435/company + \$65/employee

This membership is designed for companies and organizations with more than three environmental professionals. These members experience all the benefits of a full membership at reduced membership costs.

## Save Money – Become an Organizational AWMA Member!

Looking to save money for your company? Do you have four or more people in your office? Then you should consider becoming an A&WMA Organizational Member!

Organizational membership is open to all organizations, profit and non-profit, and costs only \$435.00 per year per company address for the Primary Representative and \$65.00 per person for any Additional Representatives. That constitutes a savings of \$90 with an Organizational Membership of four people, over the cost of four individual memberships. Each Additional Representative that joins (after the initial four) saves an additional \$115 as compared to the price of an individual membership.



What are other benefits to becoming an Organizational member? In addition to all the benefits of being an A&WMA member (networking opportunities, discounts of 20-30% on registration fees for A&WMA events, access to local Section and Chapter events, discounts on A&WMA publications, etc.), organizational members also receive the following:

#### **Literature**

- Organization members receive a copy of both the *Journal* and *EM* (one copy for the organization)

#### **Free advertising**

- Organization members are listed in each issue of *EM* and in the programs for the Annual Conference & Exhibition

#### **Additional Discounts**

- Organizational members receive discounts on certain exhibits and advertising with A&WMA

So log on to: <http://www.awma.org/join/join.html> and sign up today. Be sure to send one Primary Representative application and an Additional Representatives application for all other members.

## New Homeland Security Chemical Requirements— is your Company prepared?

Chemical Facility Anti-terrorism Standards (6 CFR Part 27) Update

Bill Straub of All4 Inc. and Len Cross of Len Cross & Associates provided a discussion of the rule background and the initial compliance requirements for the Chemical Facility Anti-terrorism Standards (CFATS) at the A&WMA Delaware Valley Chapter's regulatory update meeting on December 11, 2007. The Department of Homeland Security (DHS) published the final version of [Appendix A](#) (DHS Chemicals of Interest) to its [Chemical Facility Anti-terrorism Standards](#) in the Federal Register on November 20, 2007. The CFATS are intended to "Enhance the security of the nation by lowering the risk of terrorism at chemical facilities." Rule applicability is based on storing certain chemicals of interest (COI) at chemical facilities in amounts greater than the screening threshold quantity (STQ) identified in Appendix A of the regulation. For those facilities that store COI in quantities that trigger rule applicability, there are four (4) distinct components of the rule: Registration, the Top-Screen Analysis, a Security Vulnerability Assessment, and the Site Security Plan.

Appendix A contains the finalized list of chemicals and applicable STQ for each chemical. In addition to publishing Appendix A, DHS included revisions to the final rule to be consistent with the refinements to Appendix A. Pursuant to Section 27.200(b)(2), facilities are required to complete and submit a Top-Screen if they possess any COI at, or above, the STQ identified in Appendix A within **60 calendar days** from November 20, 2007. Bill and Len provided a discussion of the rule background and the initial compliance requirements. Specifically, they discussed the initial steps that should be completed to ensure a timely submittal of the Top-Screen:

1. Review the COI list and determining rule applicability for your facility;
2. Identify the key roles of Submitter, Authorizer, Preparer, and Reviewer;
3. Register for the Chemical Security Assessment Tool (CSAT); and
4. Study the Chemical-terrorism Vulnerability Information or CVI requirements.

Please contact Bill Straub at 610-933-5246, x12 or at [wstraub@all4inc.com](mailto:wstraub@all4inc.com) with any questions.



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Email: [dvcawma@gmail.com](mailto:dvcawma@gmail.com)

*The Air & Waste Management Association (AWMA) is a nonprofit, nonpartisan professional organization that provides training, information, and networking opportunities to thousands of environmental professionals in 65 countries. The Delaware Valley Chapter is affiliated with the Mid Atlantic States Section of AWMA and covers Eastern Pennsylvania, Southern New Jersey, or Delaware geographic areas of the United States. Currently the Chapter supports approximately 226 AWMA members in the Region.*



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We're on the Web!

<http://www.mass-awma.net/DVC.html>

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## **DVC Board Meeting**

The Delaware Valley Chapter holds Board Meetings monthly from September to May. Typically they are on the first Thursday of every month at All4, Inc.'s office location in Kimberton, PA. Contact Jennifer Flannery at [jennifer.flannery@erm.com](mailto:jennifer.flannery@erm.com) for details.

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