



# Lake Michigan States Section Air & Waste Management Association Newsletter®

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## Supreme Court Upholds the U.S. EPA's Revised Air Quality Standards

By Eric E. Boyd, Seyfarth Shaw

On February 27, 2001 the United States Supreme Court issued an opinion upholding the U.S. EPA's Revised National Ambient Air Quality Standards (NAAQS) for ozone and particulate matter.<sup>1</sup> The Court found that the Clean Air Act did not lawfully delegate legislative power to the U.S. EPA and that the U.S. EPA may not consider costs in setting primary and secondary NAAQS. The Court, however, found the U.S. EPA's policy implementing the revised NAAQS to be unlawful, and remanded the matters for further disposition by the U.S. Court of Appeals and the U.S. EPA.

The U.S. EPA revised the NAAQS for particulate matter and ozone on July 18, 1997.<sup>2</sup> The American Trucking Association and others challenged the new standards in the U.S. Court of Appeals for the District of Columbia Circuit.<sup>3</sup> That court found that, under a legal theory known as the non-delegation doctrine §109(b)(1) of the Clean Air Act, the provision allowing the U.S. EPA to establish NAAQS, delegated legislative power to the U.S. EPA in a manner contrary to that of the United States Constitution. The Court, in its recent opinion, rejected arguments that it should depart from an earlier decision in which the court found that the U.S. EPA may not consider the cost of implementing a NAAQS in setting the standards.<sup>4</sup> The U.S. EPA petitioned the Court regarding the non-delegation issue and whether the U.S. EPA's interpretation relating to the implementation of new

standards was appropriate. The American Trucking Association, and others thereafter, cross-petitioned for review of whether the U.S. EPA may consider the costs of implementation in setting NAAQS under §109(b)(1). The Court granted *certiorari* relating to both the U.S. EPA's petition and the cross-petition by the American Trucking Association.

The Supreme Court Justices agreed that §109(b)(1) does not allow the Agency to consider the cost of implementation in setting the NAAQS standards. The Justices based their opinion on the language of the Clean Air Act, finding that Congress did not clearly state that costs were to be considered by the U.S. EPA in setting NAAQS. The Justices recognized, however, that the Clean Air Act gives primary responsibility to the states in deciding what emission reductions are required from what sources.

Seven of the nine Justices also agreed that the Court of Appeals' decision that the Clean Air Act improperly delegated legislative power to the Agency was incorrect. The Justices found that the language of §109(b)(1), which requires the Agency to establish standards at levels requisite to protect public health, showed that the U.S. EPA's discretion was limited to setting standards that are sufficient, but not more than necessary. The Court found that it had upheld laws granting similar discretion to agencies in the past. The Justices, therefore,

reversed the judgment of the Court of Appeals based on the non-delegation doctrine.<sup>5</sup>

The Court unanimously held that the U.S. EPA's implementation policy was inappropriate. The Court found that the implementation policy was final agency action subject to judicial review. The Court went on to disagree with the Court of Appeals and found that the Agency's interpretation "goes beyond the limits of what is ambiguous and contradicts what in our view is quite clear." The Court therefore found the implementation policy to be unlawful and remanded it for further proceedings so the U.S. EPA could develop a reasonable interpretation of the non-attainment implementation provisions.

<sup>1</sup> *Whitman, et. al. v. American Trucking Association, Inc., et. al.*, 121 S.Ct. 903 (Feb. 27, 2001).

<sup>2</sup> See 62 Fed.Reg. at 38652 and 38856.

<sup>3</sup> See *American Trucking Association, Inc. v. EPA*, 175 F.3d 1027 (D.C. Cir.1999). The original case by the Court of Appeals was *Lead Industries Association, Inc. v. EPA*, 647 F.2d 1130 (D.C. Cir. 1980).

<sup>4</sup> In a concurring opinion, Justices Stevens and Souter agreed with the Court's result, but suggested that the Constitution does not limit Congress' power to delegate authority to others. Justice Thomas, on the other hand, voted with the majority, but filed a separate concurrence stating that the strict language of the Constitution provides that all legislative power shall be vested in Congress, and that certain decisions by agencies can only be viewed as "legislative."

<sup>5</sup> See 66 Fed.Reg. 11758 (Apr 3, 2001). The earlier final rule was published at 65 Fed.Reg. 80255 (Dec. 20, 2000).

## Upcoming Events . . . You're Invited

- August 21-23** Power Plant/Mercury Emissions Conference  
Sheraton Arlington Park (page 5)
- September 11** Mold Conference 4:00 p.m.  
Seyfarth Shaw (see below)
- September 21-22** ISBA Environmental Conference (page 6)
- September 24** Brownfields Conference (page 6)
- October** Enforcement Conference (date TBA)
- November** Compliance Primer (date TBA)
- December** Holiday Reception (date TBA)



Board of Directors Meetings are open for all members to attend. Upcoming meeting dates and locations are:

**July 24, 2001**

4:00 p.m. at R. R. Donnelley & Sons, Downers Grove

**August 14 or 21**

8:00 a.m. downtown,  
location TBA

**September 4 or 11**

4:00 p.m. north/northwest  
suburbs, location TBA

**October 16 or 23**

8:00 a.m. downtown,  
location TBA

Contact Robin Pelsis at (847) 202-0418 or  
lm\_awma@ameritech.net for exact location.

## Volunteer Activities

The LM-A&WMA Section is seeking *volunteers* to participate in the following activities:

**Environmental Issues Writers:** Our LM-A&WMA Board Secretary, Bob Wells, is always looking for talented writers to contribute articles on current environmental issues to the quarterly Lake Michigan States Section Newsletter. If you have interesting information to share from industry, government, academia or consulting, please feel free to contact **Bob** at 847-228-0707 x103 or bob\_wells@urscorp.com.

**Teacher Training Workshops:** We are actively seeking volunteers to run training workshops on air quality and pollution prevention topics for elementary and high school teachers as a way to increase their knowledge of environmental sciences. No experience necessary; we will train. For more information, contact **Jim Haried** at 630-574-2384.

**LM-A&WMA Student Chapter:** A student chapter has been formed at the Illinois Institute of Technology [IIT] and is open to students affiliated with the IIT Chicago Kent College of Law, School of Environmental Engineering and the Stuart School of Business. If you are interested in becoming active in the Student Chapter, please contact LM-A&WMA Membership Chair, **Lawrence Fieber**, at 630-990-0302 x237.

NOTE: If you are a member and have any volunteer activities that you would like to post in our newsletter, please contact **Bob Wells** at 847-228-0707 x103 or bob\_wells@urscorp.com.

**Mold Conference**  
**September 11, 2001**  
**4:00 p.m.**

**Seyfarth Shaw, Chicago, IL**

Human exposure to molds has emerged as a highly visible and controversial environmental matter. Over 70,000 species of mold have been identified, and can be found everywhere on the planet. Exposure can cause health effects that range from mild allergic-like symptoms, to death. Some molds produce metabolites that are considered to be among the most toxic of chemicals. News stories about mold are becoming a regular event.

This seminar will provide a 'short course' on mold. Background information, health effects of exposure, populations at risk, assessment methods, corrective actions, and regulatory guidance will be reviewed. Illustrations and case studies will be presented. This session is directed toward environmental practitioners and other interested professionals and managers seeking to improve their understanding of the topic.

# *ISO-14001 CONFERENCE RECAP*

On Tuesday June 5th, the Air & Waste Management Association Great Lakes Chapter and Lucent Technologies hosted a highly informative half-day seminar on Environmental Management Systems (EMS) and the international environmental management standard ISO 14001.

More than forty attendees heard a short overview of the 17 elements of the ISO 14001 standard, followed by case studies comparing the EMS implementation details and benefits as presented by speakers from Lucent, Earth Tech, Precoat Metals Division of Sequa, Akzo Nobel and International Truck & Engine. A representative from the City of Charleston, SC hooked in by phone and described the benefits of their EMS, which is the first municipality in the US to earn ISO 14001 registration. A comparison of EMS benefits and implementation lessons learned was presented, based on experiences at Ford (143 plants), DaimlerChrysler (50 plants), Anheuser-Busch (150 plants) and Bristol-Myers Squibb (74 plants).

Afterwards, a panel discussion, comprised of the five speakers, answered a wide variety of questions about details of their EMS implementation experience.

A special thanks goes to host Lucent Technologies and, especially, A&WMA Member Alexandra Moore-Staub for their generous donation of the meeting space and refreshments, and a tour of their native prairie restoration project after the workshop.

## *2001 Annual Luncheon*

On April 20, 2001 the LM-A&WMA Annual Luncheon was held at the Athena's restaurant in Chicago. Forty-two members and guests, including eight past Section Chairs attended.

Mr. Dick Scherr, Executive Director of A&WMA was kind enough to join us at the luncheon and present a short update of the activities and plans at the national office. One of the key areas Mr. Scherr pointed out was that all of us as members have an obligation to contribute back to the organization. He encouraged each guest at the luncheon to become more involved with A&WMA by attending the local programs as well as the national conference.

Mr. Scherr updated us on a number of issues to include the financial turnaround status of the organization. According to Mr. Scherr our financial position is well on its way to recovery. The key to continuing on this path is to retain current membership and to encourage new members. New members lie in the students and new professionals entering into the environmental field. Mr. Scherr reinforced to the Lake Michigan State Section members and Board of Directors a goal and mission that has already been established, which is to continue to communicate to the area colleges and universities and to continue to provide opportunities and incentives to encourage students to become involved with the association.

Mr. Bill Graham of ERM, outgoing LM-A&WMA Board of Directors Chairman, introduced the new Chairman Ms. Debra Jacobson. Ms. Jacobson then introduced the new members of the Board of Directors for the Section.

Ms. Jacobson and Mr. Eric Boyd of Seyfarth Shaw, incoming LM-A&WMA Vice Chairman, presented the Third Annual Perry Fisher award. In 1999, the LM-A&WMA established the Perry Fisher award. This award is given to an outstanding LM-A&WMA member for their hard work, dedication and membership in the association. The first year the award was given to Mr. Perry Fisher of Dames & Moore (now URS Corp.), in 2000 the award was given to Mr. John Evanoff of the Illinois Department of Commerce. This year the award was presented to Mr. Paul Farber. Mr. Farber has been a member of the A&WMA since 1985. He has served on both the national as well as the Lake Michigan State Section board of directors. Among the many other contributions Mr. Farber has made to the A&WMA, he has co-chaired countless workshops and programs and presented air compliance training. For the past three years Mr. Farber has also attended the annual conference and coordinated a LM-A&WMA member breakfast. We thank him again for his contribution to the association!

Ms. Jacobson and Mr. Boyd closed the luncheon by presenting Mr. Bill Graham our outgoing board chairman with a gift thanking him for his contribution and leadership.

## Workshop Recap

### Company Specific Information On the Internet – What’s Out There About Your Company and You.

There was again a sold out crowd for the 2<sup>nd</sup> year of the LM-A&WMA and IIT Stuart Graduate School of Business sponsored half day program on Environmental Internet Resources, held on February 20, 2001. Thirty-three members and guests attended this workshop presented by Craig Simonsen of Seyfarth Shaw in Chicago and Debra Jacobson of the Illinois Waste Management & Research Center (IL DNR). Mr. Paul Farber of Sargent & Lundy and Ms. Jacobson chaired the event. Conference space, including a computer lab, was provided by IIT Stuart School of Business and coordinated by Mr. George Nassos, Chairman of the Environmental Education Program.

This conference provided a unique educational experience for the attendees. A computer lab featuring individual computer work stations, which include two computer monitors and a single key board and mouse, were provided. One monitor was controlled by the student so that each attendee could explore specific features of web pages, etc. during the training presentation. The second computer monitor was controlled by the presenters, Mr. Simonsen and Ms. Jacobson in this case.

Mr. Simonsen presented a number of common and less common internet web sites that are useful in finding local, regional, state and federal specific regulatory information, legal proceedings, etc. Mr. Simonsen also presented a number of internet web sites that feature resources for environmental recordkeeping and reporting data. This includes sources for blank reporting forms, past reports filed by companies, etc.

Ms. Jacobson reviewed a number of internet web sites that professionals need to be aware of where members and guests may find their names and details about companies, personal information, etc. In some instances the information about the company, for example; EPA reporting data, could be incorrect. This information is accessible to the public and may bring undue attention from enforcement or environmental groups. Another example of the sort of information that can be found on the internet, a business executive for a company in Pennsylvania found that through a short series of links his home address and telephone number were accessible through the company web site.

Ms. Jacobson also covered some internet web sites where company specific information may appear and it is a good thing. Many local, county, state and federal agencies are trying to respond to the regulated community’s request to give credit where credit is due as a result of being a good corporate and environmental representative. Many internet web sites feature recognition and award programs and list the names of the specific individuals and companies who received the recognition they deserve for continually striving to protect the environment. Another source of positive internet exposure is through case studies and reports that feature specific projects or policies that companies have implemented.



## New Members

<b>Zuhdi Aljobeh</b> Valparaiso University	<b>Corrine Kupstas</b> Pharmacia
<b>Frances Barker-Hodge</b> Tetra Tech EM, Inc.	<b>Tita LaGrimas</b> Pollution Control Ind., Inc.
<b>Michael Barton</b>	<b>Lawrence Lahm</b> Pactiv Corporation
<b>Mike Beck</b> ERM	<b>Roman Lis</b> The Werchs, Ltd.
<b>Veera Boddu</b> US Army Corps of Eng.	<b>Edgar Longstreet</b> ENTACT
<b>Phyllis Borchmann</b> Woods Equipment Co.	<b>Robert Madura</b> Delta Coatings Corp.
<b>Gale Boyd</b> Argonne National Lab.	<b>Calvin Mason</b> Earth Tech, Inc.
<b>Jim Breitenbach</b> Pharmacia	<b>Christopher Moniz</b> Hercules, Inc.
<b>James Dowling</b> Trendway Corporation	<b>Stephen Niehaus</b> Fleis Vandenbrink Eng., Inc.
<b>Bernard Evans</b> ERM	<b>Jung-a Oh</b> Argonne National Lab.
<b>Stephanie Flynn</b> Abbott Laboratories	<b>Kimberly Pesenko</b> Harding ESE, Inc.
<b>Brian Griesemer</b> Montgomery Watson	<b>Michael Reese</b> Boelter & Yates, Inc.
<b>Mark Hanke</b> NALCO Chemical Co.	<b>Gary Rodabaugh</b> Ferris State University
<b>Steven Hynek</b> Dairyland Power Coop.	<b>Jenny Ross</b> Federal Aviation Admin.
<b>Roslyn Jackson</b> Commerce & Community Affairs	<b>William Tokash</b> Thermo Retec
<b>Lawrence Keller</b>	<b>James Turek</b> FTC&H
<b>Byung Kim</b> US Army Corps of Eng.	<b>Noel Vargas</b> US EPA - Region 5
<b>Timothy Krause</b> Sargent & Lundy	<b>Joel Wipf</b> CH2MHill
<b>Curtis Krueger</b> Hanson Engineers, Inc.	

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**The US EPA / DOE / EPRI  
Combined Power Plant Air Pollutant  
Control Symposium:**

**“The Mega Symposium”**

August 20-23, 2001

**The A&WMA Specialty  
Conference on  
Mercury Emissions:  
Fate, Effects and Control**

August 21-23, 2001

**AND**

The third “Mega” Symposium on air pollutant controls for power plants, co-sponsored by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE) along with EPRI will again cover SO<sub>2</sub>, NO<sub>x</sub>, particulate and air toxic emissions. This multi-pollutant conference will continue the tradition of the earlier single-pollutant meetings of showcasing the latest development and operational experience with state-of-the-art methods for reducing air emissions from fossil-fueled boilers. New this time is the coordination of the Mega Symposium with the Air & Waste Management Association’s Speciality Conference on Mercury Emissions: Fate, Effects and Control, which will take place concurrently in the same venue.

**Who Should Attend**

- Power producer managers, engineers and plant operators
- Environmental researchers, managers and engineers
- Regulators
- Equipment Suppliers
- Fundamental researchers
- Consulting engineers
- Government agency managers and staff

**Conference Location**

Sheraton Arlington Park Hotel  
3400 West Euclid Avenue  
Arlington Heights, IL 60005  
(847) 394-2000

**Exhibition**

Exhibitors will spend three days interfacing with attendees interested in learning more about any of the topics discussed at this conference. More than 500 participants are expected to gather at this conference to discuss the timely topics related to No<sub>x</sub>, SO<sub>2</sub>, Multi-Pollutant Controls, Particulate and Mercury/Air Toxics Controls. This is your opportunity to reach key decision makers in these markets. For more information and an exhibit space application, contact Rebekah Mayernik, Marketing Coordinator A&WMA at (412) 232-3444 ext. 3138 or [rmayernik@awma.org](mailto:rmayernik@awma.org).

**Sponsorship Opportunities**

Increase your exposure to meeting attendees with your prestige in the industry by becoming a sponsor of the Mega Symposium and Mercury Emissions: Fate, Effects and Control Specialty Conference. For information on sponsoring contact Terry Mohr, A&WMA Sales Promotion Manager at (412) 232-3444 ext. 3147 or [tmohr@awma.org](mailto:tmohr@awma.org).

For a detailed schedule of the conference visit the A&WMA website at [www.awma.org](http://www.awma.org) or call the Meeting Registrar at 412-232-3444 ext. 3127 to request a complete brochure.

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# Illinois State Bar Association 2001 Illinois Environmental Conference September 21-22, 2001

## Illinois Institute of Technology-Kent College of Law

This conference is designed to explore the many environmental issues which face environmental professionals throughout Illinois. The sessions will include well-know expert speakers eager to share their knowledge and experience. Sessions have been structured to address all the current key issues. The Lake Michigan States Section of A&WMA is co-sponsoring the conference, and several of our members are scheduled to participate. For further information, or to request a brochure for the conference, please contact Becky Havrilka, Illinois State Bar Association at (217) 525-1760.

### Friday, September 21st

- How Bush Administration Policies Are Impacting Illinois
- Everything You Wanted to Know About NOx, But Were Afraid to Ask
- What's New in the Courts
- Regulator's Compliance and Enforcement Initiative Forum
- Natural Resource Damage in Illinois
- Emissions Trading as the Model for Environmental Governance
- Don't Make my Brownfields Green: Issues in Brownfield Redevelopment in Illinois
- Other Clean Air Act Developments
- Water Quality Regulations: TMDLs in Illinois
- Defining the Roles of Attorneys and Consultants in Environmental Decision Making

### Saturday, September 22nd

- The Legislative Horizon for Illinois
- And You Thought it was Safe to Live in the Country
- Regional Issues
- Practice Before the Illinois Pollution Control Board
- Pollution Prevention
- Environmental Management Systems: Improving Performance and Sustainability at the Same Time
- Practice in the Illinois Site Remediation Program
- Regulatory Developments and Initiatives
- Try to See Things My Way: Participating in the Regulatory Process
- Energy Restructuring: The Future of Energy in Illinois

# National Brownfields Conference September 24-26

The National Brownfields 2001 Conference will be held this fall at McCormick Place Convention Center in Chicago, Illinois. Brownfields is the redevelopment of abandoned, idled or under-used industrial and commercial facilities. The Brownfields conference will host new opportunities to learn ranging from brownfields basics to the final steps in redevelopment completion. This conference is free to interested individuals.

Registration is currently available for developers, communities, public officials, bankers, attorneys and other colleagues interested in Brownfields redevelopment. One can register on the web site at [www.brownfields2001.org](http://www.brownfields2001.org). Hotel and Air Reservations can be made on the brownfields conference web site through one stop shopping.

This year, the suggested categories for presentations are Brownfields Basics, Leveraging Resources through Partnerships, Making it Happen and Creating Value through Sustainability.

The Engineers Society of Western Pennsylvania (ESWP) is also coordinating efforts for endorsers. It does not cost anything to endorse. The endorser is one who believes in brownfields and is willing to forward names and addresses or insert information in newsletters announcing the conference. Tracy Kochan from the ESWP at 412-261-0710, x32 can explain the endorsers role.

The exhibit space at the Brownfields 2000 in Atlantic City sold quickly last year. This year additional space has been made available for this year's audience, which may exceed over 4,000. The International City Managers Association (ICMA) is coordinating exhibit space. For exhibit space, the number to call is 703-425-0392 X22. ICMA is also looking for partnerships. Call Lisa Milligan at 508-888-8616 at the International City Managers Association if you would like more information on becoming a partner.

Opportunities abound for those who wish to help design and participate in the traditional aspects of the program. There will be another area called Tech Town which will showcase successful partnerships for brownfields technology, providing attendees with an opportunity to see how the interaction of public and private sectors has successfully brought about redevelopment of brownfields through technology.

For further information on Region 5 activities, please contact Ginny Narsete, Brownfields Conference Coordinator, in Chicago at 312-886-4359.

*Lake Michigan States Section recently awarded four scholarships based on submissions to the LM-A&WMA Student Paper Competition. Following are abstracts of the four winning papers. Congratulations to everyone who participated.*

## **Characterization of Activated Carbon Fiber Cloth Adsorption/Electrothermal Regeneration System for Compounds with High Vapor Pressures**

Christopher M.B. Lehmann (Ph.D. student),  
S.-Y. Lo (M.S.) and K.D. Dombrowski (M.S.)  
Department of Civil and Environmental Engineering  
University of Illinois at Urbana-Champaign

Activated carbon fiber cloth (ACFC) adsorption/electrothermal regeneration systems allow for the capture and recovery of VOCs from dilute gas streams without cryogenic condensation. The goal of this research is to characterize the performance of an ACFC system for industrially-significant compounds with high saturation vapor pressures including hexane, acetone, methyl ethyl ketone (MEK), methyl propyl ketone (MPK), toluene, and methylene chloride. These compounds were tested in an adsorption bed to determine the adsorption capacity, the energy required for desorption and the fractional recovery of VOC as a liquid.

## **Closure Between Measured and Modeled Light Scattering Coefficients for Laboratory Test Aerosols and Dry Ambient Aerosols**

Pinar Kus (Ph.D. student)  
Department of Civil and Environmental Engineering  
University of Illinois at Urbana-Champaign

The uncertainty in the understanding of aerosols' role in the climate change has necessitated closure experiments for the optical properties of the anthropogenic aerosols. This study summarizes the closure experiment results between measured and modeled scattering coefficients ( $\sigma_{sp}$ ) for dry and wet NaCl test aerosols and dry ambient aerosols. The ambient aerosol field measurements occurred at Bondville, IL. The results showed that the accuracy of the scattering coefficient measurement can be improved by properly measuring relative humidity and temperature in the scattering volume of the nephelometer. Closure between measured and modeled  $\sigma_{sp}$  results for NaCl at dry and wet conditions are within 4% and ~10%, respectively. Closure between measured and modeled results for dry  $\sigma_{sp}$  is within 15%.

## **Application of Optimal Sulfur Impregnation Protocol in Low-Cost Carbonaceous and Non-Carbonaceous Adsorbents for Mercury Removal**

Hsing Cheng Hsi (Ph.D. student)  
Department of Civil and Environmental Engineering  
University of Illinois at Urbana-Champaign

Coal-derived activated carbons, biomass-derived chars and activated carbons, zeolites and fly ash samples were impregnated with elemental sulfur at 300-400 °C to evaluate the properties and mercury ( $Hg^0$  and  $HgCl_2$ ) adsorption capacities in simulated coal-combustion flue gases. In general, sulfur impregnation decreased the total surface area, increased the total sulfur content and increased the equilibrium mercury adsorption capacities. Sulfur introduced into the activated carbon samples was primarily elemental and organic. However, the main sulfur forms in the zeolite and fly ash samples were elemental and inorganic. Sulfur-impregnated carbonaceous samples had larger  $Hg^0$  adsorption capacities than the zeolite and fly ash samples, suggesting that organic sulfur functional groups are potentially effective active sulfur sites for  $Hg^0$  adsorption. In addition to sulfur sites, micropores also influence  $Hg^0$  adsorption capacities. The  $HgCl_2$  adsorption capacity increased for the sulfur-impregnated samples, but it was less affected by the physical properties, indicating the difference in the adsorption mechanisms for  $Hg^0$  and  $HgCl_2$ . Sulfur-impregnated biomass chars had comparable  $Hg^0$  and  $HgCl_2$  adsorption capacities to the coal-based activated carbons indicating that the chars could be potentially cost-effective mercury adsorbents.

## **Adsorption Capacities and Heats of Adsorption for Organic Vapors on Tire-, Coal- and Phenol-Derived Activated Carbons**

David Ramirez (Ph.D. student)  
Department of Civil and Environmental Engineering  
University of Illinois at Urbana-Champaign

Adsorption is a feasible control technology to reduce the large amounts of toxic chemicals that are released directly to the atmosphere each year. Closure between experimental and modeled adsorption isotherms of volatile organic compounds was assessed. Activated carbon fiber cloth had higher adsorption capacities than coal- and tire-derived activated carbon. The isosteric heat of adsorption values for the organic vapors studied are twice their respective values for heat of evaporation.



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## *Member News*

### ***Au Revoir***

Chris Blume, an LM-A&WMA member since 1993, will be relocating to France to accept a Senior Project Manager position with URS Corporation. Formerly a Senior Project Engineer with ERM, Chris is leaving his position as Corporate Manager of Environmental Compliance at Field Container Company in Elk Grove Village to join the URS office in Lyon. Best of luck to Chris and his family in their new lives in France!

## *Help Wanted*

### **Air Quality/Noise Engineer**

Argonne National Laboratory, near Chicago, Illinois, has an opening for an Environmental Engineer to study the impact of energy technologies on air quality and noise. Requirements include a strong analytical background, experience in computer modeling; project management experience; advanced formal education in engineering, physics, or chemistry; knowledge of air quality and noise simulation techniques; emission and noise sources; control technologies; and applicable laws and regulations.

Send resume and the names and addresses of three references to Susan Walker, Box EAD-301222-100, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, Illinois 60439. Fax: 630-252-9388. An equal opportunity employer.