

Volume 30

Autumn 2008

AIR & WASTE MANAGEMENT ASSOCIATION LAS VEGAS CHAPTER



IN THE NEWS

A&WMA Las Vegas Chapter is Ready for a Section Evolution

What's In The News:

- YOU are invited! Check it out!
- Read about our current events
- Lake Baikal "unusually clean"
- How to start a recycling program
- Mark your calendars - Mayor Oscar Goodman will be our guest speaker in December!



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By Victoria Hansen

The Nevada Section of the A&WMA has taken on a new light with current Las Vegas Chapter Board members. The goal is to revive the Nevada Section of A&WMA.

The Nevada Section was brought to our attention by Paul Fransioli, who was a member of the past Section. Dissolution of the past Section occurred a few years ago due to inactivity of the group. Benefits received by reactivating the Nevada Section include greater communication and interaction with environmental professionals and students located within the state of Nevada. We hope to increase member participation in A&WMA activities, by providing technical sessions and other meetings

sponsored by the Section. We are interested in increasing exposure of A&WMA by providing a conduit between members and the surrounding community through the support of community activities such as high school science fairs and area scholarship programs. We also anticipate the development of area-wide forums among A&WMA members and possibly the public at large for the purpose of discussing air and waste issues in the State of Nevada.

With the formation of the new Nevada Section and communication lines reaching beyond the Las Vegas Valley, we hope to increase membership within the local Chapters.

Be in the Know - Join A&WMA

The Air & Waste Management Association (A&WMA) is a nonprofit, nonpartisan professional organization that offers individuals a wide array of resources and benefits embodied within the technical and scientific environmental community. Membership benefits include the opportunity for professional development, information exchange, networking opportunities, and public education and outreach. By helping to promote global environmental responsibility, A&WMA hopes to increase the effectiveness of organizations and individuals to make critical decisions that benefit their

surrounding communities. These benefits are currently extended to over 8000 environmental professionals in 65 countries. In 2007 A&WMA celebrated its 100th year of providing service to environmental professionals.

For more information and to see how the A&WMA will benefit you, access the links to the following web sites.

<http://www.awma.org/about/index.html>

<http://www.awma.org/join/index.html>

Upcoming Events

The A&WMA Las Vegas Chapter cordially invites you to :

Saturday Night - Walk in the Park & Dinner Soiree

The A&WMA Las Vegas Chapter cordially invites you to spend an evening with colleagues & join in camaraderie this 25 October 2008. We have made arrangements to tour the Springs Preserve, and then continue on to Linda Bullen's house for a dinner soiree. Please note this event is at no cost to our members.

This event is planned in conjunction with the A&WMA Sections and Chapters quarterly meeting. During this time Chapter and Section leaders come to gather and meet for the exchange of ideas and information, to continually improve the quality of the AWMA service to its members.

A&WMA Section and Chapters was developed to help promote greater interaction between regional chapters and sections by participating together in local or regional concerns and interests. To view the A&WMA Section and Chapters map, go to:

http://www.awma.org/miscellaneous/AWMA_Map0208.pdf

Mark your calendars now, and come and join us for an evening of food and festivity.

This is a great opportunity to network and socialize with colleagues and board members from other sections & chapters.

~ Event Schedule ~

Saturday, 25 October 2008

4:30 - 6:30 PM - Springs Preserve, please meet at the ticket area.

7:00 - 9:00 PM - Dinner Soiree

Optional 9:30 PM - 1:00 AM - Bellagio Fontana Room - Dian Diaz Band



A&WMA will be sending out invitations via email. This event is first come first serve, so please RSVP early as we have limited availability.

Upcoming Events

REGULATORY WORKSHOP NOTICE

FOR THE PROPOSED REVISIONS TO THE CLARK COUNTY DEPARTMENT OF AIR QUALITY AND ENVIRONMENTAL MANAGEMENT AIR QUALITY REGULATION SECTIONS 26 AND 92

Notice Issuance Date: October 5, 2008

SUBJECT OF THE WORKSHOP: The Department of Air Quality and Environmental Management (DAQEM) will conduct a workshop to discuss proposed changes to Air Quality Regulation Sections 26 Emission of Visible Air Contaminants and 92 Fugitive Dust From Unpaved Parking Lots, Material Handling and Storage Yards; and Vehicle and Equipment Storage Yards.

WORKSHOP DATE: October 24, 2008

WORKSHOP TIME: 9:00 AM – 12:00 Noon

WORKSHOP LOCATION: Organizational Development Room # 3, First Floor, Clark County Government Center, 500 S. Grand Central Parkway, Las Vegas, Nevada

WORKSHOP AGENDA: Staff will present the proposed changes to Sections 26 and 92 and discuss the details of each.

The draft rules are available for review on the Clark County DAQEM website: http://accessclarkcounty.com/depts/daqem/aq/pages/draft_regs.aspx. Those individuals who wish to obtain copies of the drafts may do so at the main DAQEM office, which is located on the first floor of the Clark County Government Center, 500 S. Grand Central Parkway, Las Vegas, Nevada or by contacting Mr. Russell A. Roberts, Project Manager, at 702-455-1611.

A&WMA MEMBER GET-A-MEMBER

Know a colleague or friend who would benefit from membership in A&WMA? Now is the time to bring them on board, during our 2008 Member Get A Member campaign! Not only will you help A&WMA grow, but you'll be eligible for great prizes!

Today's members look to A&WMA for technology exchange, professional development, networking opportunities, public education, and outreach events, as well as providing a vital link to thousands of colleagues around the world. When you recruit a new member, everyone's a winner! Share your enthusiasm about being an A&WMA member by introducing a colleague or friend to the advantages of membership in the world's leading environmental organization.

When you recruit your first new member--a coworker, friend, young professional, student--during the member get a member campaign, you will receive a **\$15 A&WMA gift certificate** good for your next purchase in the Online Library or Logo Shop as a token of our appreciation. During the last round, the three A&WMA members who recruit the most new members between March 17 and November 30, 2008 will each win a **\$200 Marriott gift certificate**.

Individuals eligible to be recruited include new members and those who have not been A&WMA members for at least one year. The member get a member campaign runs from March 17 through November 30, 2008. A&WMA members can learn more about the member get a member campaign by checking out A&WMA Member Get-A-Member page at: <http://www.awma.org/join/mgm/index.html>

Start recruiting today!

Environmental News

U.S. EPA Issues Advance Notice of Proposed Rulemaking on Regulating Greenhouse Gas Emissions Under the Clean Air Act

On July 30, 2008, the U.S. EPA published an advance notice of proposed rulemaking (ANPR) seeking public comment on regulating greenhouse gases (GHGs) under the Clean Air Act (CAA). The public has until November 28, 2008 to review and comment on both the ANPR and observations and issues raised by other federal agencies.

This U.S. EPA notice was in response to an April 2007 U.S. Supreme Court decision in *Massachusetts v. EPA*. The Court ruled the CAA authorizes regulation of automotive greenhouse gases because they meet the definition of air pollutant under the Act.

In announcing the Federal Register notice, U.S. EPA Administrator Steve Johnson stated that "the ANPR clearly demonstrates that the CAA, an outdated law originally enacted to control regional pollutants that cause direct health effects, is ill-suited for the task of regulating global greenhouse gases."

The notice reviews the various CAA provisions that could be applicable to regulating GHGs, provides information on potential regulatory approaches and technologies for reducing GHG emissions, and raises issues relevant to possible legislation and the potential for overlap between legislation and CAA regulation. For more information go to: <http://www.epa.gov/climatechange/anpr.html>

U.S. EPA Sued for Refusing To Regulate Greenhouse Gas Emissions From Refineries

On August 25, 2008, 12 states, New York City, and the District of Columbia sued the U.S. EPA for failing to regulate greenhouse gas emissions from petroleum refineries (*New York v. EPA*, D.C. Cir., docket number unavailable).

The lawsuit, filed in the U.S. Court of Appeals for the District of Columbia Circuit, alleges U.S. EPA violated the Clean Air Act when it declined to add greenhouse gas emissions to the new source performance standards for petroleum refineries.

New York was joined in its lawsuit by California, Connecticut, Delaware, Maine, Massachusetts, New Hampshire, New Mexico, Oregon, Rhode Island, Vermont, and Washington, as well as the District of Columbia and the City of New York.

U.S. EPA declined to regulate GHG emissions from refineries when it issued the final new source performance standards in June. Instead, U.S. EPA believes it is more appropriate to consider issues related to regulations of GHGs under the CAA in a broader context through the Advance Notice of Proposed Rulemaking (ANPR) published on June 30.

U.S. EPA is accepting comment on the ANPR until November 27.

U.S. EPA Fails to Meet the Statutory Deadline for Proposing Rule That Will Require Reporting of Greenhouse Gas Emissions

The U.S. EPA has failed to publish a mandatory greenhouse gas (GHG) reporting rule by September 30, 2008, as directed by Congress.

In its Fiscal Year 2008 Consolidated Appropriations Act, Congress directed U.S. EPA to publish this rule, using its existing authority under the Clean Air Act. The proposed rule would cover emissions of carbon dioxide, methane, nitrogen dioxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride above appropriate thresholds in all sectors of the economy. U.S. EPA is responsible for determining those thresholds and the frequency of reporting from upstream production (e.g., fossil fuel and chemical producers and importers) and downstream sources (e.g., large industrial facilities).

The Appropriations language instructs the U.S. EPA to publish a proposed rule by September 30, 2008, and a final rule by June 2009.

When finalized, the rule will represent the first broad-based mandatory greenhouse gas reporting requirements by the federal government.

U.S. EPA Rules to Cut Emissions from Lawn Mowers, Chain Saws, Boats

On September 4, 2008, U.S. EPA announced a final rule intended to cut nitrogen oxide and hydrocarbon emissions from engines used in lawn mowers, chain saws, and other small equipment by 35 percent, and a 45 percent reduction in evaporative emissions.

For marine engines, the rule will result in a 70 percent reduction in emissions of both hydrocarbons and nitrogen oxides and a 20 percent reduction in carbon monoxide emissions, and would cut evaporative emissions by 70 percent.

The reductions take effect in 2011 for lawn and garden equipment engines of 25 horsepower or less. For gasoline-powered personal watercraft and inboard and outboard engines, the reductions take effect in 2010, one year later than originally proposed in 2007.

To meet the new exhaust emissions standards, EPA will require manufacturers to use catalytic converters for the first time in many types of small watercraft, lawn, and garden equipment.

Small engines and marine engines are among the last major mobile emissions sources without strict emissions controls.

Environmental News

According to U.S. EPA, a push mower emits as much hourly pollution as 11 cars, and a riding mower emits as much as 34 cars. These account for about 26 percent of mobile source emissions of volatile organic compounds and 23 percent of mobile source carbon monoxide emissions.

Court Vacates U.S. EPA Regulation on Additional Monitoring in Title V Permits

On August 19, 2008, the U.S. Court of Appeals for the District of Columbia Circuit struck down a 2006 U.S. EPA rule indicating that the Title V operating permit program does not require additional testing or monitoring beyond what is required in State Implementation Plans (SIPs) or older federal rules that do not include adequate periodic monitoring provisions. The court ruling indicates that where an applicable requirement under the Clean Air Act does not contain adequate monitoring requirements to ensure continuing compliance, States must add such requirements to the Title V permits that they issue. The D.C. Circuit decision is the latest in over a decade of litigation on the part of industry, states, and environmental groups on this issue.

DOE Funding Energy Audits of Industrial Facilities

The U.S. Department of Energy has provided funding to various universities to allow them to conduct energy audits of industrial facilities. Here are the criteria for the "free" audits:

To qualify for a no-charge assessment, your plant must have:

- Standard Industrial Code between 2000-3999 (i.e. manufacturing/industrial)
- Annual energy bills between \$100,000 and \$2,500,000

And either:

- Gross annual sales below \$100 million, or fewer than 500 employees

For more information, visit http://www1.eere.energy.gov/industry/bestpractices/industrial_assessment_center_locations.html

to find a list of the various universities that are participating in the DOE Industrial Energy Audit program.

Senate Environment Committee Approves Bill to Establish Electronic Manifest System

On July 31, the Senate Environment and Public Works Committee voted to authorize development of an electronic system to track hazardous waste from cradle to grave.

The Hazardous Waste Electronic Manifest Establishment Act (S. 3109), introduced by Sen. John Thune (R-S.D.) and co-sponsored by Sens. Benjamin L. Cardin (D-Md.) and

Frank R. Lautenberg (D-N.J.), would allow the U.S. EPA to collect the fees that would fund the e-manifest system. RCRA requires the tracking of hazardous wastes from their creation to their endpoint. Many states require shippers to file paper manifests after transporting hazardous waste. Advocates argue that electronic manifests would allow more complete and accurate tracking of wastes while also saving money.

The bill, which was passed by voice vote, would authorize U.S. EPA to select a contractor to develop an electronic system that would enable states and private industry to transition to an electronic system to track the waste. There is no companion bill in the House of Representatives. While it awaits passage of a bill authorizing a funding mechanism for the program, U.S. EPA has begun the rule-making process. In a notice of data availability published in February 2008, the agency sought comments and estimated the costs of the program to users. Users would pay a fee each time they submit an electronic manifest.

After listing the polar bear as a threatened species on May 14, Kempthorne promised to make "common sense" revisions to ESA regulations and said that decision "should not open the door to use the ESA to regulate greenhouse gas emissions from automobiles, power plants and other sources." Kempthorne said climate change's impact to protected wildlife should be addressed by Congress or through the Bali road map. At the U.N. Climate Change Conference in Bali, Indonesia, in December, participating countries laid out the road map to finalize a new international agreement for reducing greenhouse gas emissions by the end of 2009.

Department of Interior Proposes Changes to Endangered Species Act Regulations

On August 11, 2008, Department of Interior Secretary Dirk Kempthorne proposed revisions to Endangered Species Act (ESA) regulations that would allow federal agencies to decide for themselves if construction projects threaten a protected species. It would also prevent federal agencies from tying global warming emissions directly to the deterioration of any species' habitat.

The revisions would eliminate the need for federal agencies to consult with the Fish and Wildlife Service or National Oceanic and Atmospheric Administration on projects deemed to have no adverse impact on threatened wildlife. Currently, consultation with scientists is required for every project that is reviewed, paid for, or approved by the federal government and that potentially could have an impact on an endangered or threatened species or habitat. The revisions are meant to allow Fish and Wildlife scientists to spend more time reviewing projects that could pose harm to endangered species or habitat. Federal agencies that deem projects to have no adverse impact on endangered or threatened species would accept the liability for any harm to threatened wildlife.

World Environmental News

Lake Baikal “unusually clean”

NOVOSIBIRSK (RIA Novosti) - Researchers exploring the depths of Siberia's Lake Baikal have found that its unique ecosystem has kept the water cleaner than previously thought, despite industrial waste.

By far the worst polluter of the world's deepest and oldest lake is a large pulp mill on Baikal's southern shore. During recent mini-submarine dives, scientists have been taking deep-water samples near the mill, to assess pollution levels.

"Dives carried out by the deep-water submersibles to date have shown that Baikal is a unique ecosystem that keeps itself in very good shape," the vice president of the Baikal preservation foundation told RIA Novosti.

Samples gathered by the Mir-1 and Mir-1 mini-submarines will undergo extensive study over a period of several years, Mikhail Borizin said.



"We can now talk about preliminary results. I can say that one of our main conclusions is that Baikal is far cleaner than initially thought," he said.

Dr. Mikhail Grachyov, an expert on the evolution of the lake's flora and fauna, earlier said Baikal contains organisms that naturally absorb crude oil.

The lake has been the focus of major environmental scares in recent years, with a last-minute change to an oil pipeline route that was set to pass near Baikal's shores, as well as environmental regulators' claims against the Baikal Pulp Mill, accused of pumping large volumes of toxic waste into the lake.

The Baikal Pulp Mill, built in the mid-1960s, is owned by Continental Management, a subsidiary of billionaire Oleg Deripaska's industrial conglomerate Basic Element. The mill plans to switch to a closed water cycle by September 10.

Baikal, a UNESCO World Heritage site, holds around 20 percent of the Earth's freshwater.

Hundreds watch mega screw

A gigantic, fish-friendly, 11-metre-long hydrodynamic screw has been imported from Germany and placed in the River Goyt in the north of England to be the UK's first community-owned small-scale hydro-project and will be

used to generate 260,000 kilowatt hours of clean and renewable energy every year.

Weighing a whopping 11.3 tons and painted green in an attempt to look unobtrusive in the natural environment, the screw is a modernized version of a 2,000-year-old device, the Archimedean screw. Water from the weir will be channeled into the screw and its weight will cause the screw to rotate and generate electricity. It is expected that 24,000 pounds worth of electricity will be produced - enough to power around 70 homes.

The steel screw began slowly turning in the on the river this week and has so far created eight megawatt hours, which is enough electricity to power 80,000 light bulbs for eight hours. The 260,000-kilowatt hours produced yearly will be used to power a local shop, and any surplus electricity will be sold to the local grid.

So far the project has been a phenomenal success with the UK Prime Minister Gordon Brown endorsing the hydro-system in the House of Parliament.

Hundreds of local people from the small town of New Mills showed up to watch the colossal screw leisurely spawn the first megawatt of many. Richard Body from Torrs Hydro, the producers of the screw, and Project Secretary commented: *"We had a great response from the community with so many coming to watch it turn. The potential for this kind of project is enormous."*

The scheme has been recognized as making an outstanding contribution within the world of green energy. Moreover, it has been nominated for a Friends of the Earth "Earthmovers" award. The Project Secretary was ecstatic about the nomination stating: *"It is great to be nominated and just to get the recognition. What we are doing is supporting renewable energy, so it is fabulous to get some credit."*

With today's anxieties about climate change and the effects non-renewable energy sources have on our planet, the hydro-screw project in New Mills can undoubtedly be considered as an outstanding exemplar in our fight against climate change. But for small renewable energy schemes to be really effective, 50 projects like this would be needed to counter just five per cent of the carbon emissions in a town the size of New Mills.



Recycling News

How to Start a Recycling Program

There are a few key elements to starting any recycling program for a business, a school, an organization or just in your home.

1. **Decide what to recycle**—Evaluate how much space you have to sort and store materials and what items you tend to go through. Paper products are a safe bet to be recycled, and aluminum or steel cans are valuable. Other commonly accepted items include glass and plastic bottles.
2. **Find a vendor**—Check with your local recycling center, municipality and waste hauler to find out what kind of materials are accepted in your area. The green Earth 911 recycling locator at the top of the page can help.
3. **Decide on storage**—Washable plastic bins or trash cans are the best and cardboard boxes are good too. Be sure to rinse out the containers that held food to avoid critters.
4. **Educate participants**—If items are put in the wrong containers, it means more work for you and could mean materials might not be recycled. Let the people know what to do.
5. **Label bins**—Print up a sheet of special instructions, such as: remove caps, stomp on containers, break down cardboard boxes, bundle newspapers, etc.
6. **Maintain and monitor**—Keep the storage bins clean and dry and make sure materials don't pile up. A clean recycling area encourages other to keep it clean and uncluttered. Watch for critters from unwashed containers.
7. **Reward good behavior**—Praise your participants and share any monetary rewards from dropping off materials.

For more tips and information on recycling, check out <http://earth911.org/>

The mission of earth 911 is to provide actionable local information on recycling and product stewardship that empowers consumers to act locally, live responsibly and contribute to sustainability.

Both the Earth911.com site and 1-800-CLEANUP toll-free hotline are provided at no cost to the user or taxpayer. Earth 911 centralizes information and resources into a single user-friendly, neutral and non-governmental network.



Environmental Education

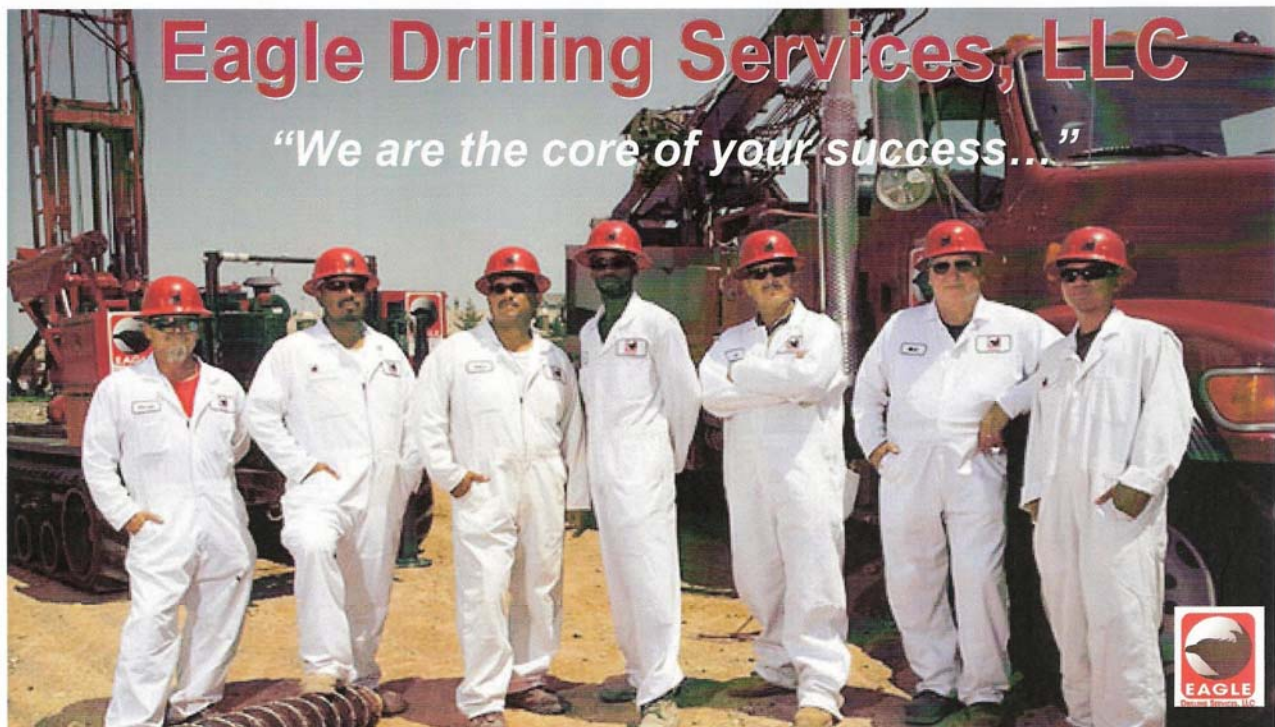
A&WMA offers a variety of products and services to help meet the professional development and educational needs of environmental professionals, university students, grades K-12 students and teachers, and the general public. Members of A&WMA's Education Council provide input into the development of these products and services and often play a key role in their delivery and dissemination. For more information go to:

http://www.awma.org/enviro_edu/index.html

The College of Southern Nevada has been selected as a new OSHA Training Institute (OTI) Education Center for Region IX. By becoming an OTI Education Center CSN is now authorized to offer comprehensive, certified, OSHA training to the local community, statewide and across the region. These courses will be offered through the Department of Occupational Health and Safety Programs. For more information go to:

<http://www.csn.edu/pages/853.asp>

MEMBER NEWS

**GROUND SOURCE HEAT EXCHANGE**

With the purchase of a Sonic Drill rig, Eagle now has the capability to install Geo Loops for Ground Source Heat Exchange (GSHE) systems.

GSHE systems take advantage of the stability of underground temperatures. A GSHE system differs from conventional heating and air conditioning systems by transferring earth's stored energy. As energy costs continue to rise and pollution concerns continue to be a hot topic, GSHE systems hold a solution to both of these concerns.

GSHE offers high efficiency and low operating cost. According to the EPA, GSHE systems can save building owners 30 to 70 percent on heating and 20 to 50 percent on cooling costs over conventional systems.

Installing a GSHE system is environmentally responsible. Since a GSHE system merely transfers heat from the ground into your building in winter and reverses the process in the summer, you reduce the need to burn fossil fuels or run your AC compressor to create a comfortable interior environment.

Sonic Drill Rig - SDC550-18**Why use a Sonic Drill Rig?**

The sonic drilling technology combines harmonics (vibration) and rotation as the basis for tool advancement. Sonic drilling uses water as the fluid medium as opposed to mud rotary, which uses mud.

Sonic drilling reduces Investigation Derived Waste by approximately 70% in most formations as compared to mud rotary methods. Core recovery from sonic drilling is greater than 90% on average. Sonic drilling saves time. Core recovery rates are consistently high without loss of time. The core is collected in 5 to 10 foot sections.

Eagle's Sonic Drill Rig is:

- Track mounted making it very robust with all terrain capabilities
- 400 feet of 5½" Drill casing, 100 feet of 3 ½" drill rod, 1 – 3 ¼" x 11' single wall (soil) core barrel and 1 – 3 ¼" x 11' double wall (rock) core barrel equipped for:
 - Geotechnical/environmental drilling with continuous sampling to 100 feet of depth
 - Installing 2" monitoring wells up to 400' deep. Larger diameter wells (up to 4") could be installed by purchasing 8" diameter pipe, and up to 6" wells could be installed by purchasing larger diameter pipe and a larger breakout table. These types of investments would be considered for larger projects.
- Automatic SPT hammer installed allowing SPT and California samples to be obtained with blow counts for geotechnical and/or environmental applications.

**For more information on Sonic Drilling or Ground Source Heat Exchange, e-mail Eagle Drilling Services, LLC.
admin@eagle-drilling.com**

7150 Placid Street, Las Vegas, Nevada 89119 - 702-341-5873
www.eagle-drilling.com

2009 Nevada Regional Middle School Science Bowl**The Office of Civilian Radioactive Waste Management, the University of Nevada, Las Vegas - Harry Reid Center, and the Atomic Testing Museum Educational Outreach Program**

are teaming up to bring a NEW dimension to the Nevada Science Education Development.

The Nevada Regional Science Bowl and Hydrogen Fuel Cell Competition was developed in 2008, and has emerged from the nationwide academic competition which tests students' knowledge in all areas of science. Middle School students are quizzed in a fast paced question-and-answer format similar to Jeopardy. A featured event for middle school students, the hydrogen Fuel Cell Competition, invites students to design, build and race model cars. This competition gives students the opportunity to test their creative engineering skills, gain experience in the automotive design process with hydrogen fuel cell technology.

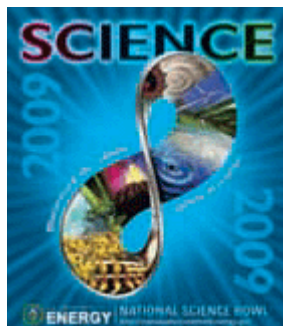
The Nevada Regional Competition will be held at UNLV Classroom Building Complex (CBC) on February 27 & 28, 2009.

Now, Nevada Middle Schools can be part of this regional level competition for a chance to attend the National Finals in Washington, D.C. from 30 April - 5 May 2009.

One team from the Las Vegas Valley will represent Nevada in this competition.

At this time, we are looking for volunteers and corporate sponsorships to help with labor and cost to accomplish this influential event.

For more information please contact Steve Curtis at (702) 219-6463 or Ellen Leigh at (702) 794-5118



Sponsorship & Advertising Opportunities

The A&WMA Las Vegas Chapter is currently offering interested companies the opportunity to sponsor their monthly AWMA luncheon meetings. AWMA luncheon sponsorship will allow a firm to:

- Provide and display a poster/sign indicating company name and services;
- Provide a short introduction of the company and services provided at the beginning of the meeting (2 minutes);
- Provide meeting attendees with cards, pens, information packets, etc.;
- In addition, the sponsor's company logo will be displayed on the AWMA (Las Vegas chapter) web page for six months and the quarterly newsletter.

Upcoming sponsors will be scheduled for the next available meeting on a first come first serve basis (one sponsor per luncheon). A company/business will be the monthly lunch sponsor with a donation of \$100.00. Donations are requested one month prior to the sponsored event.

For more information on sponsoring a meeting, please contact the Media Director, Victoria Hansen.

Monthly Chapter Luncheons

The Las Vegas Chapter conducts monthly luncheon meetings on the **second Wednesday of every month**. During each luncheon, a presentation is given on various topics related to environmental issues and impacts facing Southern Nevada.

Luncheons are held at the Las Vegas Country Club @ 3000 Joe W Brown Dr, Las Vegas, 89109

Check-in: 11:15 a.m. to 11:30 p.m. **Lunch Begins:** 11:30 p.m. **Presentation:** 12:00 p.m. to 12:30 p.m.

Cost: Members: \$25.00 Non-Members: \$30.00 Full Time Students: \$10.00

For more information, or to RSVP please contact **Tony Francis** no later than noon Monday before the luncheon by calling 702-873-4478 or email tfrancis@ssalabs.com. All interested parties are welcome.

<http://www.lvawma.org/meetings.html>

Upcoming Luncheon Speakers:

November 12, 2008 - *Will Elcoate, Test America Inc., will speak on Vapor Intrusion Investigations.*

December 10, 2008 - *Mayor Oscar Goodman, will speak on Current Events in Las Vegas.*

**AIR & WASTE MANAGEMENT
ASSOCIATION
LAS VEGAS CHAPTER**



IN THE NEWS

For questions, comments, or suggestions,
please contact the Media Director:

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Phone: 702-456-3364
Fax: 702-360-3364
E-mail: vhansen@eqm.com

Visit us online!!

<http://www.lvawma.org/index.html>



Mark your calendars now and plan to join us in Detroit for the Air & Waste Management Association's 102nd Annual Conference & Exhibition (ACE). ACE is a premier education, networking, and solutions event for environmental professionals. Join us and be part of a global conversation that will drive environmental progress.

<http://www.awma.org/ACE2009/index.html>

Luncheon Sponsors

July 2008



www.kaerchercampbell.com

September 2008



www.gesnevada.com

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www.broadbentinc.com

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December 2008



www.ssalabs.com

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