Foll owing a successful air filtration demonstration project at Los Angeles and Long Beach area schools, the South Coast Air Quality Management District (SCAQMD) on January 11, 2011 awarded $5.4 million to IQAir North America to install and maintain high-performance air filtration devices at more than 40 schools in Wilmington.

“We now know that these devices can be effective at reducing children’s exposure to particulate matter in the classroom,” said William A. Burke, Ed.D., chairman of SCAQMD’s Governing Board. “This project will help reduce health effects that school children could suffer from high levels of outdoor air pollutants.”

Funding for the project comes from a settlement with the City of Los Angeles and community groups to mitigate environmental impacts from the TraPac Container Terminal Expansion Project at the Port of Los Angeles. Based on its experience with similar air filtration projects, the City of Los Angeles and the community groups asked SCAQMD to implement and administer this project.

The approved project will provide funding for the installation in Spring 2011 of high-efficiency air filtration devices for about 47 schools in the Wilmington area, a community heavily impacted by port-related activities. Additional filters could be installed in San Pedro area schools if funding is available.

In early 2008, SCAQMD conducted a pilot study of classroom air purification systems at three elementary schools located near refineries, other industrial facilities and freeways in the Carson-Long Beach area. This study showed that the low-cost, high-efficiency HVAC filters removed up to 90 percent of ultrafine particles and diesel particulate matter from indoor air.

Following the successful pilot study, in October 2008 SCAQMD approved $1.125 million from a penalty settlement with the Valero oil refinery for high-efficiency air filtration devices at schools in the Long Beach and Los Angeles unified school districts. To date, classrooms at six schools have received air filtration devices.

In addition, four schools and one community center in San Bernardino and seven schools in the Boyle Heights area will receive air filtration devices funded by the UNOCAL Reformulated Gasoline Settlement Fund. SCAQMD will work closely with both communities to provide technical assistance during project implementation.

For more information, contact Philip Fine at 909-396-2239 or pfine@aqmd.gov.
Lawn Mower and Leaf Blower Exchange Programs Coming Soon

The SCAQMD is currently in the process of planning and scheduling its annual “Mow Down Air Pollution” Lawn Mower Exchange Program and its annual Leaf Blower Exchange Program, both to be held in 2011.

The Lawn Mower Exchange events are expected to take place between May and July 2011 at locations throughout the area. This program allows residents living within SCAQMD’s four-county jurisdiction to turn in their working gas-powered lawn mower and purchase a new cordless rechargeable electric mower at a greatly reduced price. There will be several makes and models available from which to choose.

The Leaf Blower Exchange program is expected to be scheduled between April and May 2011. The program allows an older backpack leaf blower to be exchanged for a low-polluting and lower-noise model. This program is open to professional gardeners and landscapers who live and work in the SCAQMD’s four-county jurisdiction.

Check the SCAQMD web site at www.aqmd.gov for announcements of when registration will begin for these programs, or sign up at www.aqmd.gov/listserver/list.aspx to be notified when registration for each program will begin.

For more information, contact Shashi Singeetham at 909-396-3298 or ssingtham@aqmd.gov

AQMD to provide verification services to greenhouse gas emissions data reporters

On January 18, 2011 the SCAQMD was approved by the California Air Resources Board (CARB) as a verification body for the mandatory state reporting of greenhouse gas (GHG) emissions data. The accreditation allows SCAQMD to provide GHG data verification services to facilities generating at least 25,000 tons of CO2 emissions per year. These facilities are required to report emissions data to CARB. SCAQMD has 15 verifiers and can also provide verification services for cement and refinery emissions.

For more information, contact Jill Whynot at 909-396-3104 or jwhynot@aqmd.gov

Gas Log Purchase Incentive Program a Success

As part of the Healthy Hearths initiative, the SCAQMD Governing Board in 2008 approved funding to reduce the cost of purchasing and installing gas log sets in local area households. Under the program, residents could receive a $125 discount toward the price of purchasing and installing gas log sets to replace wood-burning in existing fireplaces.

With funding fully expended in December of 2010, this program has been deemed a resounding success. Since the gas log buy-down program began in mid September 2008 the work from the contracting team of Robert H. Peterson Company/Rasmussen Iron Works and their participating retailers has resulted in the installation of 7,500 gas log sets into Southern California households.

Approximately 61% of installations occurred in Los Angeles County, 29% in Orange County, 7% in San Bernardino County and 3% in Riverside County. Based on contractor sales data, nearly three-quarters of the installations occurred in the October through March time frame.

The Healthy Hearths initiative originated from SCAQMD’s Rule 445 – the first Southern California regulation aimed at reducing pollution from wood-burning fireplaces and other devices, such as old wood stoves. The California Air Resources Board has estimated that PM2.5 pollution, including wood smoke, is linked to approximately 5,000 premature deaths annually in Southern California.

For more information, contact Michael Laybourn, at 909-396-3066 or mlaybourn@aqmd.gov
Ask the SCAQMD Advisor

Q: What can I do as an individual to help reduce smog?

A: Individuals can become involved and informed in the fight against air pollution by joining SCAQMD’s Clean Air Connections. Membership is free and open to everyone. When you join Clean Air Connections you will receive the Air Bulletin e-newsletter that provides members with the latest information on clean air technologies, upcoming events and conferences, proposed rules, and health studies related to air pollution. To become a part of the team fighting for healthy air for everyone, join by calling 1-800-4-CLN-AIR or visiting www.CleanAirConnections.org.

There are additional steps that you can take to help clean the air. Some of these include:

• Since motor vehicles are responsible for more than half of all smog-forming emissions, consider choosing one of the lowest-polluting models available, when buying your next vehicle.

• Some older vehicles and those that are improperly maintained emit at least 20 times more pollution than newer models in good working order. So report smoking vehicles and suspected air pollution violations by calling 1-800-CUT-SMOG.

• Dry cleaners in the region emit about 850 tons a year of a toxic chemical called perchloroethylene. Try non-toxic alternatives to dry cleaning such as professional wet cleaning.

• If you haven’t already, choose from the many options available to conserve energy – and save money – such as using compact fluorescent light bulbs, using the microwave to cook small meals and buying energy-efficient appliances when you replace old ones.

• Painting homes and other structures causes more than 50 tons per year of smog-forming pollutants – five times the amount from all the area’s oil refineries. Read paint labels and choose coatings that contain little or no smog-forming pollutants, identified as volatile organic compounds or VOCs.

• In one year of operation, one older gasoline-powered lawn mower pollutes as much as four late-model cars. Help cut pollution by purchasing an electric mower when you replace your gasoline-powered model.

For 10 Things You Can Do to Help Clean The Air, view or download the brochure on the SCAQMD’s web site at www.aqmd.gov

Metro Retires Last Diesel Bus, Helping Make Region’s Air Cleaner

On January 12, 2011, the last diesel bus in the 2,228 vehicle fleet directly operated by the Los Angeles County Metropolitan Transportation Authority was retired, making Metro the first major transit agency in the world to operate only clean fueled buses. Officials celebrated the “retirement” by watching a tow-truck haul the last diesel bus to a scrap yard.

Nearly 20 years ago, Metro directors decided to order only clean air vehicles from then on, an action that paved the way for other transit agencies across the U.S. to opt for greener vehicles. After experimenting with methanol and ethanol, Metro ultimately went with compressed natural gas (CNG) engines and today has 2,221 CNG buses, one electric and six gasoline-electric hybrid buses in its fleet. Together, these vehicles have logged one billion clean air miles.

The retirement celebration also recognized Metro’s significant contributions in reducing air pollution in one of America’s smoggiest regions. Compared with traditional diesel buses, Metro’s new CNG fleet reduces cancer-causing particulate matter by more than 80 percent. And due to the switch from diesel to CNG, Metro avoids emitting nearly 300,000 pounds of greenhouse gas per day.

The clean air bus fleet is just one aspect of Metro’s green program, which also includes widespread use of solar panels at bus maintenance facilities, recycling, and building and retrofitting new transit facilities with sustainable materials and practices. The solar panels alone reduced Metro’s carbon footprint by 16,500 metric tons in 2010, the equivalent of removing 3,200 cars from Los Angeles area streets and freeways.

For more information, contact Henry Hogo at (909) 396-3184 or hhogo@aqmd.gov

DID YOU KNOW?

During winter, warm air is always escaping from your house and is replaced by unheated outdoor air. The typical house has one-half to two air exchanges per hour, and more on windy and/or very cold days. To save energy, and thus save money while also preventing emissions from burning fossil fuels, it is best to keep the warm air inside. To do this, consider installing wall, floor and ceiling insulation. You can also caulk around all windows, doors, pipes, and any opening into the house. Weather-strip all door and window openings and consider installing double-paned glass, outdoor or indoor storm windows, and insulated curtains.
PEMS: The Latest Tools and Techniques for In-Use Emission Measurements

A full-day comprehensive workshop to explore issues for testing on-road and non-road engines will be held March 24, 2011 at South Coast Air Quality Management District (SCAQMD) Headquarters, 21865 Copley Dr., Conference Room GB, Diamond Bar, CA 91765.

The workshop, “Portable Emission Measurement Systems (PEMS): The Latest Tools and Techniques for In Use Measurements,” is intended for air quality scientists, regulators, policy makers, and equipment manufacturers, and is being hosted by Center for Environmental Research & Technology (CE-CERT) at Bourns College of Engineering, University of California, Riverside. SCAQMD is a sponsor of the workshop. Today’s state-of-the-science portable testing capabilities represent a significant advance in meaningful testing of heavy-duty engine exhaust emissions. PEMS testing can help ensure that the public health benefits of more stringent emission standards are actually realized under real-world operating conditions, throughout an engine’s useful life.

The purpose of this workshop is to provide information to both active and potential users of PEMS on the latest developments for in-use measurements tools and lessons learned. The latest status of the in-use testing program from American, European, and Asian perspectives will be discussed.

For more information on participating in the PEMS workshop, contact the Center for Environmental Research and Technology (CE-CERT) at 951-781-5682 or visit their PEMS Workshop web page at: http://www.cert.ucr.edu/events/pemsworkshop.html

New Website and Video Explain How Air Pollution Affects Health

The Los Angeles County Medical Association (LACMA) has recently launched the new, “Cure The Air” website: (www.curetheair.com), which features a Public Service Announcement video sponsored in part by the South Coast Air Quality Management District. The website focuses on how air pollution affects everyone’s health and what can be done about it.

Filmed on October 23, 2010, the PSA features a group of practicing LACMA physicians and medical students as LACMA spokespeople. Several of the physicians featured are active members of LACMA’s Air Quality Committee, which was formed to advocate for clean air legislation and promote awareness of air quality issues in Los Angeles County. The video and website are part of the LACMA Air Quality Committee’s “Cure the Air” campaign that has been started.

“Cure The Air” is a campaign formed by physicians in Los Angeles County who believe that reducing the dramatic and alarming rates of asthma and air-related illness in communities requires stepping out of the doctor’s office and into the public policy arena. In short, these doctors realize that curing their patients involves curing the air.

The “Cure The Air” campaign is dedicated to reducing the health effects borne from air pollution in Southern California through education, engagement, and cooperation with business, government and the community. By working together, physicians plan to understand the direct value of cleaner air in the form of reduced hospital visits and medical care costs. Additionally, stakeholders can pinpoint the largest sources of air pollution in the region and collaborate on solutions that keep both their patients and the economy healthy.

Additional information featured on the “Cure The Air” web site, includes details on the sources of air pollution and how it affects human health.

For more information, contact Sean O’Brien (LACMA) at 213-226-0330, or seano@lacmanet.org
CEQA Tool: New Land Use Emissions Computer Model Released

In cooperation with air districts throughout the state, SCAQMD has released a new land use emissions computer model for use by government agencies, land use planners and others to estimate potential criteria pollutants and greenhouse gas emissions from a variety of land use projects.

The software estimates direct emissions from construction and operations (including vehicle use), as well as indirect emissions associated with energy and water use. Further, the model calculates the benefits from implementing mitigation measures, including GHG mitigation measures recently developed through the California Air Pollution Control Officers Association (CAPCOA). The model is available free of charge and can be downloaded and operated from one’s own computer.

The first version of the model, a user’s guide, frequently asked questions, and future events, such as upcoming training sessions, can be found on the CalEEMod website at www.caleemod.com. SCAQMD will soon be holding training sessions on the new model at its headquarters in Diamond Bar.

For more information, contact Mike Krause at 909-396-2706, or mkrause@aqmd.gov

New iPad App Features Current and Forecasted Air Quality Information

The South Coast Air Quality Management District (SCAQMD) recently launched a new iPad app that provides a wide range of air quality information. This app follows the SCAQMD’s launching in early 2010 of the nation’s first fully featured smart-phone application providing users with air quality information. This app was designed for use with the iPhone.

Due to the iPads larger display size and information capacity, the new app provides an even more enhanced opportunity to obtain current and forecasted air quality information in the SCAQMD Basin (all of Orange and the urban portions of Los Angeles, Riverside and San Bernardino counties).

This includes real-time and forecasted air quality levels for user-selected areas, a user-friendly carbon footprint calculator to reduce greenhouse gases, an interactive map to locate alternative fuel stations throughout California and useful air quality news. The app also allows users to report smoking vehicles, either through a direct-dial to SCAQMD’s 1-800-CUT-SMOG hotline or a voice recording that can be sent at a later time.

To help Southland residents get involved in the fight to clean the air in the region, the app includes an online form to join SCAQMD’s Clean Air Connections, a group of thousands of residents who keep in touch with new clean air technologies and air quality issues that affect their communities.

The free iPad app, as well as the new upgraded version of the SCAQMD’s iPhone app, can be downloaded at the Apple App Store. For more information on the iPad app’s features, visit: http://www.aqmd.gov/ej/CAC/smartphones.htm.

For more information, contact Denny Shaw at 909-396-2386 or dshaw@aqmd.gov
The following proposed and amended rules and regulations are tentatively scheduled for hearing at upcoming Governing Board meetings. To verify whether scheduling changes have occurred, visit the AQMD website at www.aqmd.gov/hb/gb_cal95.html and check the Rule and Control Measure item on the Governing Board meeting agenda or call the Clerk of the Board’s Office at (909) 396-2500.

Copies of AQMD rules and regulations can be downloaded from the website at www.aqmd.gov/rules/rulesreg.html or provided by AQMD’s Public Information Center, (909) 396-2039.

**April**

**Rule 1162 - Polymer Resin Operations**
Proposed amendments to Rule 1162 would require further VOC reductions from new or emerging technologies such as the use of low monomer resins and other adjustments based on the availability of technology.
For more information, contact Naveen Berry at (909) 396-2363 or nberry@aqmd.gov

**Rule 1470 & Rule 1471 - Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines Requirements for Diesel-Fueled Internal Combustion and Other Compression Ignition Engines Used in Agricultural Operations**
CARB has amended the ATCM for stationary diesel-fueled internal combustion engines to reduce particulate emissions from stationary diesel-powered agricultural engines that are used for growing crops, raising fowl or other animals at farms, ranches, universities, or other places. Proposed Rule 1471 will consolidate requirements for existing and new diesel-powered agricultural engines.
For more information, contact Susan Nakamura at (909) 396-3105 or snakamura@aqmd.gov

**Proposed Rule 1311 - Federal PM2.5 New Source Review Program**
Proposed Rule 1311 will implement U.S. EPA’s New Source Review program requirements relative to PM2.5.
For more information, contact Jill Whynot at (909) 396-3104 or jwhynot@aqmd.gov

**May**

**Rule 1107 - Coating of Metal Parts and Products**
Amendments to Rule 1107 would further reduce VOC emissions and improve rule clarity and enforceability.
For more information, contact Naveen Berry at (909) 396-2363 or nberry@aqmd.gov

**Reg. III - Fees**
Amend fee rules in accordance with FY 2011-12 AQMD Budget.
For more information, contact Jill Whynot at (909) 396-3104 or jwhynot@aqmd.gov

**Rule 1132 - Further Control of VOC Emissions from High-Emitting Spray Booth Facilities**
The proposed amendments will seek to revise the emission reporting from fiscal year to calendar year to reflect the revised reporting period.
For more information, contact Naveen Berry at (909)396-2363 or nberry@aqmd.gov

**Rule 1147 - NOx Reductions From Miscellaneous Sources**
Proposed amendments are to clarify the fuel and time meters requirements.
For more information, contact Joe Cassmassi at (909) 396-3155 or jcassmassi@aqmd.gov

**Rule 2511 - Credit Generation Program for Locomotive Head End Power Unit Engines**
This rule will allow generation of PM mobile source emission reduction credits from Locomotive Head End Power Unit Engines. Credits will be generated by retrofitting engines with PM controls or replacing the engines with new lower-emitting engines.
For more information, contact Randal Pasek at (909) 396-2251or rpasek@aqmd.gov

**Rule 2512 - Credit Generation Program for Ocean-Going Vessels at Berth**
This rule will allow generation of PM, NOx and SOx emission reduction credits from ocean-going vessels while at berth. Credits will be generated by controlling the emissions from auxiliary engines and boilers of ships while docked.
For more information, contact Randal Pasek at (909)396-2251or rpasek@aqmd.gov
Cheryl Marshall

Cheryl Marshall, who loves to travel, has participated in the employees’ carpool program ever since she joined the SCAQMD back in 1988. She first started by working in the then-Engineering Division, as an Engineering Technician responsible for processing permits and helping to create the permit streamlining program.

Today, Cheryl is a Program Supervisor for the Toxics Rule Team in the Planning, Rule Development, & Area Sources department, where she works on developing toxic rules for diesel engines, chrome plating, and lead-acid battery recycling. She also helped develop the SCAQMD’s 2010 Clean Communities Plan, which she is looking forward to help implement.

Prior to coming to the SCAQMD, Cheryl worked in a wide variety of jobs, including as the first woman on the West Coast to be an “Oil Field and Mud Engineer.” Cheryl began her education in Wyoming, working towards an industrial degree and a management degree. “I then moved to California with plans to take a semester off…and 25 years later I finished my BS in Management and then received a Master’s degree in the same field.” She chose to work at the SCAQMD because “it gave me the opportunity to use my engineering education and work in the environmental field.”

Before joining SCAQMD, while her children were still small, Cheryl lived overseas for seven years in Abu Dhabi, United Arab Emirates, and then in Jakarta, Indonesia, as a result of her husband’s overseas job. While overseas she also traveled to many places in Europe and Asia. She said that Cabo San Lucas is one of her favorite destinations. These days she mostly travels in-country to visit family, like Colorado Springs where her son lives. She is planning a family reunion in Glacier Park, Montana this summer, near where she grew up.

As she nears the end of her career, Cheryl is looking forward to making one more major trip. She says she is “looking forward to retiring in a few years and moving to Oklahoma where we have a home on five acres near Lake Murray.” But she added that she will miss many of her fellow employees whom she loves.

Min Sue

Min Sue had just moved back to Southern California from the Bay Area, when he started working for the SCAQMD in 2008 as an Air Quality Inspector in the Toxics and Waste Management Division.

“It was a job opening referral by another SCAQMD employee,” he said that brought him back both to the area and to the District, adding that the referral was from his cousin, Lisa Wong, a Senior Office Assistant in Engineering and Compliance.

Growing up in the San Gabriel Valley, Min still remembers the smog alerts that he heard about while attending grade school. He later moved to Boise, Idaho where he attended junior high school and high school, but returned to Southern California for college. Min has both a Bachelor of Science degree in Biological Sciences from UCLA, and a Master of Science in Biological Sciences from California State University, Los Angeles.

After graduating, he worked at CSULA as a technician and part-time faculty member teaching zoology, botany, and general genetics laboratory courses in the Department of Biological Sciences. Then in 2006, he got married, left the CSU job, and moved to the Bay Area for about eight months with his wife Sheri, who was at the time employed in downtown San Francisco. But in less than a year, they moved back to Los Angeles, and he started working at SCAQMD soon after.

Min and his wife love to travel, especially to Japan and Taiwan where his wife is from. But they’re temporarily ceased their travel plans since their 2½ year old son Matthew was born.

Eugene Kang

Eugene Kang has had an interest in the environment ever since his days attending the University of California, Irvine, back in the 1990s, where he earned a Bachelor’s in Science Degree in Applied Ecology. After graduation, he worked for two years in Korea as a technician and analyst at a sample analysis lab. When he returned in 2001, he joined SCAQMD.

“I initially discovered the District through career development courses that I had taken during college. I was very impressed that the District was considered the benchmark when it came to air quality regulations worldwide, so after graduating, I applied when the opportunity arose,” he said.

In his first year, he was an inspector in the Refinery Division, and then spent three years in the RECLAIM/Energy Division, followed by two years in the Toxics Waste Management Division. He is now an Air Quality Specialist in the Toxics Unit. During his time at SCAQMD he has appreciated the organizational structure of the agency and his colleagues.

Eugene and wife Monica live in Orange County, where he also grew up, after being born in Los Angeles. They have been married for the past 4½ years, and he recently became a father to his first child, a 3½ month old daughter named Olivia.

When asked about his outside interests, he said “I am a golf nut and play every chance I get. I also love to snowboard, although I don’t get out as often as I used to.”

He explained that the reason he doesn’t still, get to go out and play golf, or do other things as much as he used to is because after becoming a father his life changed a lot, and he has more responsibilities at home than ever before.
Rule Compliance Promotion Classes

**Rule 403 – Controlling Dust in the South Coast Air Basin**
- Every third Wednesday of the month.
- This half day-class is held at SCAQMD’s Diamond Bar Headquarters from 8:30 a.m. to 11:30 a.m. There is no fee, but pre-registration is required.
- To register, call toll free 1-866-DUST (3878) or e-mail dustcontrol@aqmd.gov

**Rule 403.1 – Controlling Dust in the Coachella Valley**
- Every third Wednesday of the month.
- This course is held from 1:00 p.m. to 4:30 p.m. at the Coachella Valley Association of Governments, Room 119, 73-710 Fred Waring Dr., Palm Desert, CA, 92260. There is no fee, but pre-registration is required.
- To register, call toll free 1-866-DUST (3878) or e-mail dustcontrol@aqmd.gov

**Rule 2202 – Employee Transportation Coordinator Training**
- March 17, SCAQMD Diamond Bar Headquarters
- March 30, Courtyard by Marriott, Burbank
- April 7, SCAQMD Headquarters, Diamond Bar
- April 14, Aerospace Corp. El Segundo
- April 28, Loma Linda University, Loma Linda
- Classes are held from 8:00 a.m. to 5:00 p.m. Registration fee is $154.81 per person. Enrollment is limited to 20 students and classes will be filled on a first-come first-served basis.
- Class information is located at www.aqmd.gov under Business/Transportation/Rule 2202 Training.
- To register, call (909) 396-2777 or email etctraining@aqmd.gov

**Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities**
- March 16
- April 13
- May 18
- June 15
- Classes are held from 8:00 a.m. to 1:00 p.m. at SCAQMD Diamond Bar Headquarters. Registration fee is $74.64 per person and pre-registration is required.
- To register, call (909) 396-2658 or email doswald@aqmd.gov

Briefly...

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