

GREEN TECH CONNECT FORUM & EXPO THIS SUMMER

The South Coast Air Quality Management District (SCAQMD) will be hosting a Green Tech Connect Forum & Expo, August 3-4 at the Pasadena Convention Center. The purpose of the forum is to introduce investment bankers and venture capitalists to developers of clean air technology. This information exchange could serve to expedite the introduction and potential funding of low-emission technologies needed to help clean the Southland's air.

The forum is one of four elements in the "Helping Hand" initiative introduced by SCAQMD Governing Board Chairman William Burke earlier this year to assist local stakeholders in pursuing and achieving their clean air objectives. The event will provide a networking opportunity for new technology developers to meet potential funding sources, and could inspire developers to focus on future compliance and technology improvements.

The exhibitors will showcase clean air technologies that could help "green" California's economy and assist in achieving federal clean air standards as well as the objectives of the state's global warming initiative, AB 32.

Expert panels will focus on new and emerging technologies such as:

- **Green Building**
- **Vehicle Technology**
- **Power Generation**
- **Clean Fuels**
- **Emission Controls**
- **Consumer Products**
- **Infrastructure Improvements**
- **AB 32 Compliance Tools**
- **Technology Improvements at Ports and Airports**
- **Smart-Grid Carbon Reductions**

For registration and exhibitor information, please visit SCAQMD's website at www.aqmd.gov.

For additional information, contact Lourdes Cordova Martinez at (909) 396-3214 or lcmartinez@aqmd.gov.

Helping Southern California Get Its Fair Share of Funds from the American Recovery and Reinvestment Act

More than 500 people, including over a dozen local elected officials, attended an April 1st SCAQMD evening workshop on obtaining federal economic stimulus funds.

Representatives from federal agencies presented information on how to maximize opportunities to ensure Southern California generates new local jobs and gets its fair share of funds from the American Recovery and Reinvestment Act (ARRA) of 2009. The workshop provided information and assistance on applying for funds in the following programs:

- Energy Efficiency
- Advanced Vehicle Technology
- Clean Cities
- Diesel Emissions Reductions Act
- Federal Transportation

A copy of the webcast from the meeting is available on the SCAQMD website at www.aqmd.gov.

For general questions regarding energy and environment opportunities in ARRA, email recovery@aqmd.gov. To explore partnering with the SCAQMD on submittals, email arra_partner@aqmd.gov. For additional information, call (909) 363-3333.

Cleaning the air
that we breathe...



10

Things You Can Do to Reduce Your Carbon Footprint

CO₂

Each of us can help reduce greenhouse gas emissions, which also can reduce smog-forming pollutants, toxics, and expenses. Many small actions can add up to a big difference. Please consider the following suggestions:

1. Share a ride. Van pool, carpool, take mass transit, ride a bike, walk, or otherwise get to and from work or school in an environmentally friendly (and often less expensive) way.

2. Be conscientious about your energy use. Turn off your computer, television, and lights when not in use. Unplug phone chargers or other electronics when not needed, as anything with a light on is using energy.

3. Recycle. Throw away as little as possible and use fewer disposable products.

4. Reduce the amount of paper you use. Print out only what you really need, and print on both sides of the page. Use email or phone when appropriate.

5. Save water. Consider drought-tolerant landscaping, adjust sprinkler timers appropriately, fix leaks right away, take shorter showers, try not to waste water.

6. Use stairs, if you are able instead of the elevator (don't forget to use the handrails).

7. Use fewer disposable items. Bring your own glass, coffee cup and/or dishes to work or school. Use reusable grocery bags instead of plastic or paper bags.

8. Think 'green' when buying a car or appliance. Look at fuel type and fuel economy before you buy a car, and check out energy ratings on

appliances; you can save a lot of money and be a more responsible consumer.

9. Purchase local goods when possible.

Transporting groceries and other items uses fossil fuels, which add to global warming.

10. Learn about global warming and what you can do to reduce your impact. Contribute to the solution, not just at work or school, but at home, through your purchases, and by reducing your use of fuels, electricity, and water.

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

SCAQMD Comparing Two Types of Solar Technology on its Roof

In an effort to generate more of its own energy from renewable sources, the SCAQMD has installed two types of solar panels on its roof. One is the conventional crystalline silicon panel and the other is a thin film photovoltaic (PV) system. Due to the uniqueness of this project, the SCAQMD will be able to test the new system side-by-side with the conventional system.

The thin film technology, called a Building Integrated Photovoltaic (BIPV) system, has the potential for more power output, because these cells respond to a wider spectrum of light and generate more power under low light conditions. This may provide higher annual electricity production. The BIPV system does, however, require approximately double the roof space compared to the conventional crystalline silicon panels.

The SCAQMD has a long-standing commitment

to solar and other renewable energy technologies due to the many benefits including the generation of clean, renewable power, decreased fossil fuel consumption, insulation against rising electricity costs and reduced carbon dioxide (CO₂) emissions.

Prior to this installation, the SCAQMD already owned and operated an 80 kilowatt (kW) PV system, which produced a total of 130,000 kilowatt hours (kWh) of clean, renewable electricity in the first year of operation.

With the addition of the new 80 kW system, the SCAQMD will expand its solar capacity to generate additional benefits and further reductions in the facility's carbon footprint.

For additional information, contact Patricia Kwon at (909) 396-3065 or pkwon@aqmd.gov.



Southern California Synagogues Go Solar for the "Blessing of the Sun"



On April 7, the South Coast Air Quality Management District (SCAQMD) joined with the Board of Rabbis of Southern California and more than 60 members of the public at Temple Emanuel in Beverly Hills to celebrate the Blessing of the Sun, a once-in-a-generation Jewish event. To coincide with this celebration, SCAQMD provided a grant to partially underwrite the installation of new solar panels to light sacred lamps in more than ten synagogues throughout SCAQMD's four-county region.

The event included prayers, songs and a time capsule filled with children's essays and pictures about their hopes and visions of which clean energy sources will be in use in the future. According to Jewish tradition, the Blessing of the Sun, which is observed every 28 years, commemorates the position of the sun at the time of Earth's creation.

Rabbi Mark S. Diamond, Executive Vice President of the Board of Rabbis of Southern California, commented that they were "pleased to partner with SCAQMD, Temple Emanuel and other southern California synagogues to sponsor this event as a springboard to increased environmental activism

within our community." This project was a part of the SCAQMD's Clean Air Congress Communities of Faith Partnership which seeks to partner with a wide cross

section of faith communities. The goals are to provide information and encourage participation in critical policy issues surrounding air quality and its impacts on public health and the environment.

For more information, contact Anupom Ganguli at (909) 396-3185 or aganguli@aqmd.gov.



Chinese Delegates Visit SCAQMD Seeking Solutions to Air Pollution Problems in China

Faced with air quality issues in their own country, a group of Chinese legal specialists visited SCAQMD recently hoping to get some answers.

The group of environmentalists, legal professors, government officials and one journalist embarked on a whirlwind two-week visit from Beijing to California. One of their stops was the SCAQMD headquarters in Diamond Bar, where they met with a senior engineer, a meteorologist and an attorney with the agency.

China is in the midst of amending its Clean Air Act, an enormous task in light of that nation's serious pollution problems. The visitors wanted advice from SCAQMD on efforts to reduce pollution. SCAQMD, known internationally for its success in combating air pollution, regularly hosts visitors from around the world interested in learning effective ways to handle air quality

issues in their own countries.

Before the 2008 Summer Olympics, the Chinese government made significant efforts to clean up that nation's air, and to bring air quality in Beijing in line with global standards. Factories were relocated or shut down and cars were ordered off the roads and replaced with taxis and buses. Now the Chinese government wants to learn how to make further improvements to air quality.

One key concern in China is finding the best way to encourage business owners to embrace a new way of dealing with environmental issues, according to Alex Wang, an attorney and director of the China Environmental Law Project at the Natural Resources Defense Council in Beijing.

Gao Jie, a Chinese attorney specializing in environmental issues, said there are plans to adopt a new pollution



regulation later this year in China.

"Since the Olympic Games, there is a much greater awareness of health issues that stem from pollution," Jie said. "People are beginning to think about the relationship between the economy and the environment. It's a very positive step."

For more information, contact Dipankar Sarkar at (909) 396-2273 or dsarkar@aqmd.gov.

SCAQMD Approves Funds for First Natural Gas-Powered Concrete Mixer



The South Coast AQMD Governing Board recently approved funds to demonstrate a prototype natural gas-powered concrete mixer truck to help reduce emissions from the construction sector, a major source of smog-forming and toxic diesel emissions.

Heavy-duty trucks are among the largest contributors of smog-forming pollutants in the South Coast Air Basin but no original equipment manufacturer currently produces a concrete truck with a natural gas-powered engine.

“We are looking forward to making this type of clean-fueled truck widely available to construction companies interested in promoting clean energy,” said William A. Burke, Ed.D., SCAQMD Governing Board Chairman. “It’s important to have natural gas vehicles for all

applications, including heavy-duty construction equipment, and this is a great example of how clean fuel technology is spreading to all kinds of vehicles.”

There are approximately 4,700 concrete mixer trucks operating in the South Coast Air Basin, with the trucks typically running on 350 horsepower diesel-fueled engines. Concrete mixer trucks represent 4% of the total vehicular PM emissions in the region.

The natural gas engine in this demonstration project already meets the 2010 heavy-duty engine emission standards, which will make this the cleanest concrete mixer truck anywhere in the nation.

McNeilus Truck and Manufacturing Company, based in Minnesota, has been contracted to make the necessary modifications to the truck prototype so it can be commercialized and sold.

The project includes creating and conducting a six-month testing program and developing documentation for its maintenance and operational use.

Robertson’s Ready Mix Concrete, another company serving businesses in Southern California, is currently demonstrating a non-commercial prototype in their existing fleet of trucks. Company officials say they will consider purchasing up to 100 natural gas concrete mixer trucks if the demonstration project proves successful.

For more information, contact Phil Barroca at (909) 396-2409 or pbarroca@aqmd.gov.



Cement Rule Amended to Further Reduce Emissions

In March, the South Coast Air Quality Management District (SCAQMD) strengthened an existing regulation, Rule 1156, to further reduce particulate matter emissions (PM10), as well as the toxic chemical hexavalent chromium from cement manufacturing facilities. The revised regulation is expected to benefit public health due to the reduction of emissions as well as increased monitoring and analysis.

The new regulation stems from the air quality agency’s discovery last year of elevated levels of hexavalent chromium in dust blowing from the TXI Riverside Cement Co. in Rubidoux, one of two cement plants in the area. Additional

sampling traced these emissions to the loading, unloading and transferring of “clinker” material – a primary component that helps form cement and is comprised of limestone and other materials.

“SCAQMD has spent months working with those in the cement industry and the residents who live in the vicinity to strengthen this rule,” said SCAQMD Governing Board Chairman William A. Burke, Ed.D. “We are confident these well-thought out measures will reduce emissions from these facilities and provide public health protection.”

The other cement plant affected by the amended rule, California Portland Cement Co. in Colton, will cover open storage piles of clinker material with tarps and build wind barriers. TXI Riverside Cement Co. no longer has this type of operation. In addition, ambient air monitoring from both cement operators is now required,

along with a compliance monitoring plan for hexavalent chromium. If elevated levels occur, the rule contains contingency measures that would require full enclosure of clinker piles.

The new regulation also calls for wind monitoring with a two-hour halt on “clinker” material handling if wind gusts exceed 25 miles per hour.

Rule 1156 was originally adopted in November of 2005 and required cement manufacturing facilities to control dust from open storage piles, internal roadways, and various processes including loading and unloading, transferring, crushing, screening and milling, and storage of materials.

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

SCAQMD First in Nation to Adopt Rule Reducing Smog-Forming Ingredients from Consumer Paint Thinners

Governing Board Members from the South Coast Air Quality Management District took a critical step at their March meeting in adopting Rule 1143 which will significantly reduce smog-forming emissions from paint thinners and solvents used by consumers.

Consumer products, which include everything from nail polish to floor wax, emit more than 110 tons per day of smog-forming volatile organic compounds (VOCs) in the Southland. Consumer products are the largest source of VOCs in the region, eclipsing cars, trucks or industry.

In less than two years, it is expected that the rule will reduce VOC pollution by up to 9.75 tons per day. This amount of VOC reduction is more than what

would be achieved by shutting down all seven major oil refineries in Los Angeles County.

Rule 1143 establishes VOC limits and labeling requirements for all consumer paint thinners and multi-purpose solvents. Consumers should not notice any difference in the performance of low-VOC paint thinners and solvents. Products manufactured prior to the effective date of Jan. 1, 2010 can be sold for one year thereafter. This rule affects approximately 107 manufacturers and 12 distributors.

For more information, contact Laki Tisopulos at (909) 396-3123 or ltisopulos@aqmd.gov.

SAVE THE DATE
Thursday, July 16, 2009

New Perspectives on **Community Health and Air Quality**

University of Southern California
Davidson Conference Center
Los Angeles

For more information, email
CommunityHealthConference@aqmd.gov
or call 909-396-2432



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RULE UPDATE

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 SCAQMD Web site 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 SCAQMD rules and regulations can be downloaded from the website at www.aqmd.gov/rules/rules.html or provided by SCAQMD's Public Information Center, (909) 396-2039.

June

Rule 433 - Natural Gas Quality

The proposed rule would require monitoring of natural gas quality to determine impacts of new supplies of liquified natural gas.

For more information, contact Marty Kay (909)396-3115 or mkay@aqmd.gov.

Rule 1401 - New Source Review of Toxic Air Contaminants

Amendments to Rule 1401 will add ethylbenzene cancer risk value approved by the Office of Environmental Health Hazard Assessment (OEHHA).

For more information, contact Susan Nakamura (909)396-3105 or snakamura@aqmd.gov.

Reg. III - Fees

Amend fee rules in accordance with FY 2009-10 SCAQMD Budget.

For more information, contact Laki Tisopulos (909)396-3123 or LTisopulos@aqmd.gov.

July

Rule 1193 - Clean On-Road Residential and Commercial Refuse Collection Vehicles

Amendments to Rule 1193 are being scheduled for July for purposes of improving the implementation of Rule 1193 and clarifying the requirements of private fleets as they operate under exclusive contracts with public entities based on recent U.S. Supreme Court and appellate court decisions.

For more information, contact Dean Saito (909) 396-2647 or dsaito@aqmd.gov.

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Recent Events

Earth Week 2009

SCAQMD participated in numerous Earth Week events throughout the region. Just a few examples: Seal Beach Naval Weapon Station's Earth Day, Earth Day on the Mountain in Lake Arrowhead, Santa Clarita Earth Day Festival & 20th Annual Arbor Day Celebration, San Dimas Earth Day, and the Green Valley Earth Day Festival in Corona.

For more information, contact Marc Carrel at (909) 396-3213 or mcarrel@aqmd.gov.

Faster Freight Cleaner Air Conference

South Coast AQMD co-hosted the Faster Freight Cleaner Air (FFCA) Conference which was held March 23-25, 2009 at the Long Beach Convention Center and drew over 700 attendees.

The conference highlighted the latest developments in goods movement and air quality, and featured sessions on climate change challenges, alternative fuels and new technologies being implemented at ports around the nation.

Conference speakers included SCAQMD Governing Board members Ron Loveridge and Tonia Reyes Uranga, as well as Long Beach Mayor Bob Foster, Los Angeles Mayor Antonio Villaraigosa and other leaders of government and industry. Experts and practitioners alike shared case studies and highlighted solutions which have resulted in positive economic and environmental benefits for their communities.

Conference attendees were also invited to visit the expo hall which included over 50 exhibitors displaying green goods movement technologies. The conference concluded with off-site tours of a hybrid tugboat and the world's largest liquified natural gas (LNG) refueling facility.

The U.S. Environmental Protection Agency, California Air Resources Board, the Port of Long Beach and the Port of Los Angeles also co-sponsored the event. For more information, visit the conference website at www.ffcalifornia.com.

For additional details, contact Lourdes Cordova Martinez at (909) 396-3214 or lcmartinez@aqmd.gov.



Clean Air PEOPLE

Meet the diversely talented people who work at the SCAQMD

Counting down the days to retirement, Mike Bogdanoff is the very likable guy walking around each day in a Hawaiian shirt. Mike started with the South Coast Air Quality Management District in 1992, working for Dr. Alan Lloyd in the Technology Advancement Office. He is still in that division, working as a Program Supervisor in Technology Demonstration.

For the last 15 years, Mike has handled over 100 projects involving mobile-source and clean-fuel technology. These include projects from lawn mowers to locomotives, and conventional fuels to alternative fuels. Mike's current demonstration projects include emission controls for Metrolink locomotives, electric heavy-duty trucks and hydraulic-hybrid buses and trucks.

Mike holds a Bachelor of Science degree in Engineering from UCLA. Prior to coming to the SCAQMD, Mike worked for seven years at Caltrans, and then seventeen years at the Air Resources Board where he was responsible for new vehicle and engine certification, aftermarket equipment, and in-use compliance programs.

On a more personal note, Mike has four children ranging from 21-29 years and one 7 month old grandson, Jameson Memphis. Mike is a soccer referee for college, high school and amateur adult teams, a Bible teacher, and plays the piano and keyboard.

Mike plans to retire toward the end of this year and by the middle of next year should be living in his previously purchased home, on one acre of land, in



Mike Bogdanoff

SCAQMD
Advisor

Texas, close to where his two brothers live.

Mike's easygoing attitude comes from his motto of "do to others what you would have them do to you." His "to do" list prior to moving to Texas, includes endless chores at his new residence and finding time to drop a few emails to his buddies here at the SCAQMD.

George Illes joined the SCAQMD in 1989. He worked in the Combustion Unit of the Engineering Division as an Air Quality Engineer until the layoffs in 1994. George chose to take the lay-off so that he could travel. He visited France, Germany, Spain, Hungary, Poland, Denmark, Sweden, Venezuela, Guatemala, Honduras, Mexico, and Indonesia.

George came back to the SCAQMD and worked as a consultant in 1997 and 2001 on backlog contracts and by 2002 was hired back full time as an Air Quality Engineer in the Waste Management Team.

George is now a Senior Air Quality Engineer on the Operations Team of the Engineering and Compliance Division. His direct assignment is reviewing New Source Review applications.

Prior to coming to the SCAQMD, George worked at the IT Corporation as a Manager in the Information Management Department.

George is surrounded by girls – well, at least three. His wife and two lovely girls, ages nine and eleven, grace his household. He enjoys traveling, photography, music and camping. George has displayed several of his photographs from his vast collection in the SCAQMD lobby. In fact, several years ago, during Women's History Month, George took the pictures for the "Women of AQMD" exhibit, which started the "AQMD's Artist Collection" displayed in our lobby.



George Illes

You may not know her face, but you might recognize the voice. Marylynn Garner-Gharib has been on staff at the SCAQMD since April 1, 1990 when she was hired as a "temp" in the Cut Smog group. Marylynn then joined full time as a Radio Telephone Operator in October 1991.

Marylynn is now a key member of the eight person Communications Center staff, which is part of the Public Affairs Division. On a typical day, she answers the phones (including 1-800-CUT-SMOG), re-directs calls, takes complaints and provides support to the inspectors in the field. "We utilize all of our experience and resources to ensure that callers are connected to the correct person or program the first time," Marylynn said.

Prior to coming to the SCAQMD, Marylynn was with Fedco for 19 years. She was the Assistant Office Manager in the legal department and Secretary to the Vice President. She has four children, two grandchildren and one great-grandson.

About two years ago, Marylynn was in a very serious car accident. It took 14 months before she was able to return to work. Due to injuries, she was paralyzed from the waist down for about 6 months. She says "it took hard work and therapy to get me up and walking again, and I made it through with the constant prayers and well wishes of all of my extended family, here at the SCAQMD. It really makes you realize how close your work family has become to you."



Marylynn Garner-Gharib



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Briefly...

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 1-866-861-DUST (3878) or email dustcontrol@aqmd.gov.

Rule 403.1-Controlling Dust in the Coachella Valley

- Every third Thursday 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 1-866-861-DUST (3878) or email dustcontrol@aqmd.gov.

Rule 2202-Employee Transportation Coordinator Training

- May 7, SCAQMD's Diamond Bar Headquarters
- May 14, Orange County Transportation Authority (OCTA), Orange
- June 4, SCAQMD's Diamond Bar Headquarters
- June 11, LAX, Los Angeles, Flight Path Museum

Classes are held from 8:00 a.m. to 5:00 p.m. Registration fee is \$61.70 per person. Enrollment is limited to 20 students and classes will be filled on a first-come, first-served basis. Full information on these classes can be located on our website at www.aqmd.gov under Business/Transportation/Rule 2202 Training.

To register, call (909) 396-2777 or email etctraining@aqmd.gov.

Rule 1403- Asbestos Demolition/ Renovation Activities

Classes are from 8:00 a.m. – 1:00 p.m., held in CC6 at the SCAQMD's Diamond Bar Headquarters. Registration fee is \$32.75 per person and pre-registration is required.

Class dates:

- May 13
- June 17

To register, call (909) 396-2053 or email jmoore@aqmd.gov.

SCAQMD Advisor

This bimonthly news publication is produced by the South Coast Air Quality Management District's (SCAQMD) Legislative & Public Affairs Office. SCAQMD is the air pollution control agency for Orange county and major portions of Los Angeles, San Bernardino and Riverside counties. *SCAQMD does not endorse or warrant any products, services or companies mentioned in this publication.*

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