



South Coast
AQMD

SCAQMD

*Cleaning
the air
that we
breathe...*

ADVISOR

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SCAQMD Adopts Comprehensive Blueprint for Cleaning Southland's Air

In March, the SCAQMD Governing Board adopted a 21st century blueprint for clean air, calling for strong regulations combined with incentives to achieve healthful air for the region's 17 million residents.

The 2016 Air Quality Management Plan was developed over the past three years with extensive public input, including more than 200 meetings with community, environmental and faith-based groups, as well as local governments and business entities across SCAQMD's four-county region. Some highlights of the plan include:

- Stringent stationary-source measures across all sectors, including the largest industrial facilities under the RECLAIM program;
- A sunset for the RECLAIM program with a return to command-and-control regulations;
- A specific process to help implement the state's mobile source commitments locally, through identifying enforceable actions to reduce emissions at facilities such as ports, warehouses, railyards, and airports; and
- An assessment of the needed incentive programs to reach attainment, designed to help small businesses and residents who are least able to afford equipment upgrades.

The plan was forwarded to the California Air Resources Board which approved on March 23. Now the plan will be forwarded to the U.S. Environmental Protection Agency for its review. Once approved by U.S. EPA, the plan becomes federally enforceable.

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



New Battery-Operated Air Monitors Deployed in Paramount



Since October of 2016, SCAQMD and the California Air Resources Board have paired capabilities to identify ambient levels of hexavalent chromium, as well as other pollutants, in the city of Paramount.

Using portable air monitoring devices called OMNI Samplers, SCAQMD and CARB gather saturation sampling data from various sites designated within the city of Paramount. The samplers can be mounted to many different points of reference, utilizing infrastructure like streetlights, telephone poles, or tripod mounts positioned on vehicles to act as mobile sampling stations.

While CARB focuses on samplers placed in schools and residential areas of the city, SCAQMD follows the OMNI samplers in heavily industrial areas, using the data to narrow down potential sources of excessive emissions. With this information, the agency will identify the most prevalent sources of hexavalent chromium and other toxic metals, and develop a plan of action to reduce emissions as quickly as possible.

SCAQMD Hosts the Third Annual CESAR CHAVEZ DAY OF REMEMBRANCE



For the third consecutive year, the South Coast Air Quality Management District hosted the Cesar Chavez Day of Remembrance. This inspirational event focused on the environment and air quality while honoring the memory of civil rights and labor activist Cesar Chavez. This year's event was held at La Plaza de Culturas y Artes in Los Angeles, a leading community center and museum for Mexican-American, culture. Several local area schools participated, with students from all grade levels attending.

The keynote speaker was Christine Chavez, granddaughter of Cesar Chavez and Outreach Coordinator for the U.S. Department of Agriculture. Former Los Angeles Mayor Antonio Villaraigosa also spoke on the importance of clean air for our communities. Fabian Nuñez, former Speaker of the State Assembly and author of noted law AB 32, the California Global Warming Solutions Act of 2006, was honored at the event with the Richard Alatorre Environmental Justice for All Award.

Health Briefs:

WHO Lists Indoor and Outdoor Air Pollution as Leading Cause of Death for Young Children

According to a report released in March by the World Health Organization (WHO), the leading cause of death worldwide for children under 5 years old is exposure to air pollutants. According to the report "Don't Pollute My Future! The Impacts of the Environment on Children's Health," each year 570,000 children under age five die from respiratory infections, such as pneumonia, attributable to indoor and outdoor air pollution, and secondhand smoke.

Health risks from environmental threats can start when fetuses are in their mother's womb where pollution exposures may increase the risk of premature birth. Infants and toddlers exposed to indoor and outdoor air pollution and secondhand smoke have an increased risk of pneumonia in childhood, and a lifelong increased risk of chronic respiratory diseases, such as asthma. Exposure to air pollution may also increase their lifelong risk of heart disease, stroke and cancer.

Young children's smaller bodies and airways, make them especially vulnerable to dirty air.

It's estimated that worldwide, 11-14% of children five years and older currently report asthma symptoms and an estimated 44% of these are related to environmental exposures. Air pollution, second-hand tobacco smoke, and indoor mold and dampness make asthma more severe in children.

Air Pollution Linked to Dementia

A University of Southern California (USC) study released in January 2017 linked exposure to particulate pollution with an increased chance of developing dementia, including dementia caused by Alzheimer's disease, in older women.

The USC-led study found that older women who live in places with fine particulate matter (PM 2.5) exceeding the federal standard are 81 percent more at risk for global cognitive decline and 92 percent more likely to develop dementia, including Alzheimer's. The adverse effects were stronger in women who had the APOE4 gene, a genetic variation that increases the risk for Alzheimer's. If their findings hold up in the general population, air pollution could be responsible for about 21 percent of dementia cases, according to the study.

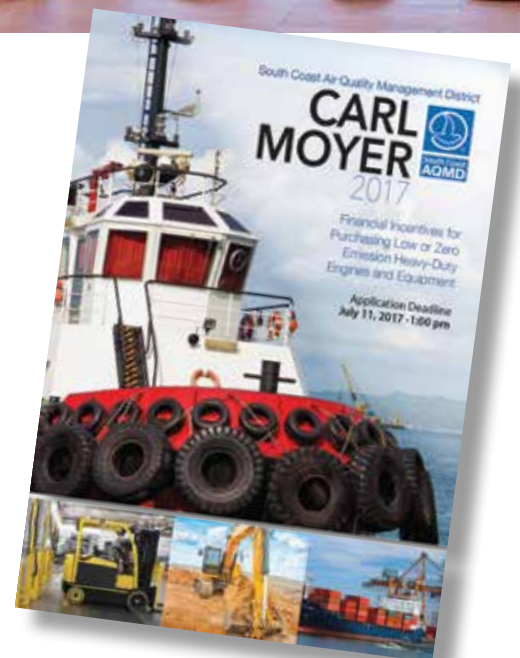


Carl Moyer Applications Accepted Online Through July 11th

SCAQMD is accepting grant applications online for the Carl Moyer Program (CMP) through July 11th. The CMP promotes emission reductions of NOx, particulate pollution (PM), and reactive organic gases (ROGs) from on-road heavy-duty vehicles and off-road equipment.

Projects operating 75% of their time (mileage or hour-based) within SCAQMD boundaries and meeting the criteria described in the 2017 CMP Guidelines and all current Advisories are eligible for consideration.

For more information, visit <http://bit.ly/CarlMoyerProgram> or contact Walter Shen at wshen@aqmd.gov or (909) 396-2487.



SCAQMD Employees Adopt State of the Art Fuel Cell Cars

With a greater understanding of the impacts that our vehicles are having on the environment, many people are now considering, or even purchasing, a clean vehicle with zero emissions. Most people have heard about, if not ridden in, an electric vehicle. California is home to nearly half of all the electric vehicles in the nation. But another type of zero emission vehicle is also gaining some attention: the hydrogen fuel cell vehicle.

Like EVs, fuel cell vehicles benefit the environment by generating zero harmful emissions. And it takes just a few minutes to fill up the tank with hydrogen; about the same length of time it takes to fill up a gasoline-powered car with gas. Several manufacturers either sell or lease fuel cell vehicles, including Toyota, Honda and Hyundai, and a few SCAQMD staff are driving them.

Naveen Berry, Planning and Rules Manager in SCAQMD's Science and Technology Advancement Division, is one SCAQMD staffer who drives a fuel cell vehicle. He leased a Honda Clarity in February. His favorite part of owning a hydrogen fuel cell vehicle? Being able to drive long distances, emission-free. Naveen first became interested in fuel cell technology, which generates real-time electricity using hydrogen, with only water and oxygen as the exhaust, after driving some of the first hand-built prototypes nearly 20 years ago. Naveen was inspired to come work for SCAQMD after "[growing] up in the San Gabriel Valley, under the cloud of Stage 1 and 2 smog alerts."

Henry Pourzand is an Air Quality Specialist in Planning, Rule Development and Area Sources who has been with SCAQMD for 28 years. This past February, he leased a Toyota Mirai.

According to Henry, he chose to get a hydrogen fuel cell vehicle because of the convenience of being able to refuel at SCAQMD during work days as well as the vehicle's quick refueling times and the longer range capability. The novelty of the car also appealed to him, and it seems that nearly every day, "folks ask me about the car."

Henry was inspired by his environmental interests to come work for SCAQMD, and it seems to have inspired him to drive one of the first commercially available fuel cell vehicles.



Congressional Staffers Visit SCAQMD

A bipartisan delegation of several staffers from key Congressional offices visited the Southland for a three day visit sponsored by SCAQMD.

The visit provided an opportunity to educate key policy advisors about SCAQMD, the air quality challenges we face in our region, and some of the advanced technologies we are implementing to address those challenges.

After arriving, the group headed to the Ports of Los Angeles and Long Beach for a combined land-sea tour to highlight many of the clean technologies being implemented there. They conducted the tour on an electric bus built in Southern California by BYD.

The next day, the group rode in an ultra-low NOx natural gas bus provided Los Angeles County Metro.

The group rode the bus to SCAQMD headquarters in Diamond Bar where they met with and had a briefing with the top leadership of SCAQMD. The group also had a tour of the SCAQMD facility and lab. They then were shown a number of vehicles that not only included SCAQMD's fleet of clean light-duty vehicles, but also a display of several heavy-duty trucks and buses in SCAQMD's parking lot to highlight advances among electric, fuel cell and ultra-low NOx natural gas vehicles.

The group then toured the Inland Empire where they visited Riverside-based bus remanufacturer and retrofitter Complete Coach Works, the BNSF railyards, a gas station in Ontario which dispenses every type of clean vehicle fuel available, and SCAQMD's Ontario Etiwanda air monitoring station.

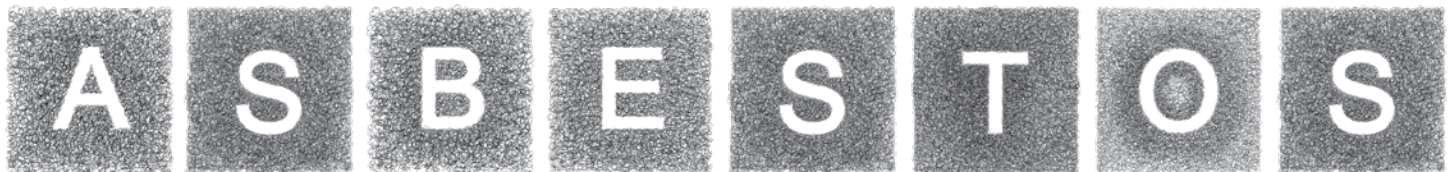


New Inspectors Learn the Ropes

This spring, 20 new inspectors will be joining the Compliance & Enforcement team at SCAQMD. Most of these talented individuals have either engineering or science backgrounds which they will apply to different field assignments.

Before they began their new jobs, though, they completed ten weeks of extensive training comprised of a combination of classroom courses and field work. On their first day of training, SCAQMD Executive Officer, Wayne Nastri welcomed the group and emphasized the importance of their role at SCAQMD. "It's important for you to know how valuable you are to this agency. The decisions you make affect the lives of the people in the community."

Initially, the trainees gained knowledge about the mission, organizational structure and policies at SCAQMD. They also received detailed information about specific procedures for inspectors, such as pre-inspection planning and preparation, complaint investigation, safety, and recordkeeping. Following the first portion of the training, the coursework focused on detailed presentations on rules, lab sampling and analysis and equipment. Throughout the training they also attended CARB classes. Finally, the trainees were paired with mentors who provided them with hands-on field training.



Rule 1403 Asbestos Contractor Registration Now Available Online

SCAQMD has released new procedures for the submittal of Rule 1403 Asbestos Removal and Demolition Notifications and related payments. Asbestos contractors are now required to submit all notifications and fee payments to SCAQMD online. Applications may no longer be submitted via fax or email. To submit notifications and payments, contractors must register online and create an account at <https://xapprod.aqmd.gov/cromsp>. Visit aqmd.gov/home/regulations/compliance/asbestos-demolition-removal for more information.



It's Now Easier than Ever to Trade in An Old Gas-Powered Lawn Mower for a New Electric Model

The popular SCAQMD Electric Lawn Mower Exchange Program is now offered as a year-round rebate program. Purchasing an electric lawn mower is now simpler and much more convenient! Residents of SCAQMD's four-county region can purchase a new cordless, battery-electric lawnmower directly from manufacturers, local retailers, or an on-line distributor. After turning in a working gasoline-powered lawn mower to an approved dismantler for permanent destruction, individuals can then apply, within 60 calendar days for an after-purchase rebate. The rebates, of either \$150, \$200 or \$250, are determined based on the retail cost of the new electric mower (excluding delivery fees and sales tax).

The online application, a list of eligible mowers and authorized scrapping facilities, as well as easy-to-follow instructions, are available at aqmd.gov/lawnmower. You may also email lawnmower@aqmd.gov or call 888-425-6247 for more information.

Rule Update

The following proposed amended rules and regulations are tentatively scheduled for hearings at upcoming Governing Board meetings. To verify whether scheduling changes have occurred, visit the SCAQMD website at aqmd.gov/home/library/meeting-agendas-minutes and check the Rules 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 aqmd.gov/home/regulations or obtained from SCAQMD's Public Information Center at (909) 396-2039.

May

Rule 219 – Equipment Not Requiring a Written Permit Pursuant to Regulation II Rule 222 – Filing Requirements for Specific Emission Sources Not Requiring a Written Permit Pursuant to Regulation II

Amendments to Rules 219 and 222 may be proposed in tandem to exclude equipment with de minimis emissions from the requirement to obtain written permits by adding additional equipment categories to the streamlined file/ registration program of Rule 222.
For more information, contact Tracy Goss at TGoss@aqmd.gov or (909) 396-3106.

June

Regulation III – Fees

Regulation III will incorporate a Consumer Price Index adjustment to keep pace with inflation, pursuant to Rule 320, and proposed amendments may also make any other needed adjustments.

For more information, contact Carol Gomez at CGomez@aqmd.gov or (909) 396-3264.

Rule 1118 – Control of Emissions from Refinery Flares

The proposed amendments would address emissions from flaring during external events like power failure on the local grid and from flaring events caused by refinery activities.
For more information, contact Ian MacMillan at imacmillan@aqmd.gov or (909) 396-3244.

Rule 1147 – NOx Reductions from Miscellaneous Sources

Proposed Amended Rule 1147 will modify emission limits for certain source categories based on findings and recommendations from the Rule 1147 Technology Assessment.
For more information, contact Tracy Goss at TGoss@aqmd.gov or (909) 396-3106.

July

Rule 1466 – Toxic Air Contaminant Emissions from Decontamination of Soil

Proposed Rule 1466 will establish requirements to control toxic particulate emissions from activities involving storing, handling and transporting soils during decontamination activities.
For more information, contact Susan Nakamura at SNakamura@aqmd.gov or (909) 396-3105.



Take Me Out to The Ball Game...In a Big, Orange Bus

Regardless of whether you are a fan of the Los Angeles Dodgers or the California Angels, it's likely that you will root for a clean and efficient way to slide past game-day congestion at Dodger Stadium.

Operated by the Los Angeles County Metropolitan Transportation Authority and funded by a grant from the Mobile Source Air Pollution Reduction Committee (MSRC), the Dodger Stadium Express bus service quickly ferries baseball fans from Union Station in downtown Los Angeles via a dedicated bus lane for about two miles to Dodger Stadium. Riders get to experience the ease of riding in 40-foot long CNG buses (air conditioning too!) instead of waiting in idling vehicles on nearby streets and freeways.

Angels fans also have a quick and easy way to see their team play home games. The MSRC also granted the Orange County Transportation Authority (OCTA) \$500,000 to provide special train service to weekday games at Angels Stadium for the 2017 and 2018 baseball seasons. Service will be provided on Metrolink's Orange County line for each weekday evening game in both northbound and southbound directions. In addition, for 15 of these games limited service will be provided to and from Riverside. The trains will be Tier 4 locomotives, the cleanest commuter trains available.

So the next time you think about checking out a game at Dodger Stadium or Angels Stadium, consider riding on less polluting options.

CLEAN AIR People

In Memoriam: Dr. Chung S. Liu 1950-2017



Dr. Chung Shing Liu, former Chief Scientist and Deputy Executive Officer for Science & Technology Advancement for SCAQMD passed away peacefully at home on February 27, 2017, at the age of 66 after a recent illness.

Chung grew up in Taipei, Taiwan and attended college at Taiwan's Fu Jen Catholic University. In 1974, after earning his bachelor's in chemistry at Fu Jen University, serving as a Captain in the Taiwan military, and getting married to his wife Diana, they moved to Southern California where he earned his master's degree in inorganic chemistry from UCLA. He would eventually go on to earn an M.B.A in finance and management science and a doctorate in environmental science and engineering from UCLA as well.

In 1978, the Lius moved to the Bay Area where Chung began his career in environmental science. Three years later they returned to Southern California where Chung started his 32-year career with SCAQMD ending in retirement in 2013. During his tenure at SCAQMD, he worked his way up from an Air Quality Specialist in Planning, to Planning Manager, to Director of Applied Science & Technology. Ultimately, he was named Deputy Executive Officer for Science and Technology Advancement and the agency's Chief Scientist.

Under his leadership, SCAQMD contributed significantly to the development of natural gas, hybrid, electric, and fuel cell technologies. Chung oversaw technology programs where, SCAQMD provided incentive funding for the replacement of 5,000 high-emitting diesel trucks, over 1,200 natural gas school buses, and nearly all transit buses in Southern California, developing a region-wide fueling infrastructure, and installing shore power at the Ports of Los Angeles and Long Beach.

During his career, Dr. Liu authored over 75 scientific papers on research in air quality model simulation, risk assessment, control strategy formulation and technology advancement, and served on the California Air Resources Board Research Screening Committee and several other peer review advisory groups.

**Submit Nominations for
29th Annual Clean Air Awards
Before They Close July 7th.**

 **29th
Annual
Clean Air Awards**

Every year, for over a quarter of a century, SCAQMD has honored those that have helped to improve the air we breathe across our region. Our air is cleaner and our families are healthier because of their efforts.

Now is the time to submit your nominations for those worthy of being recognized at the 29th Annual Clean Air Awards. Nominations are being accepted in the following categories:

- Innovative Clean Air Technology
- Model Community Achievement
- Clean Air Education and Outreach
- Business Leadership in Air Quality
- Youth Leadership in Air Quality



Visit CleanAirAwards.com to submit a nomination. All nominations must be submitted online through that web site. The deadline for submitting nominations is 11:59 p.m. on July 7, 2017.

Those selected, by the Nomination Review Committee, will be honored at the 29th Annual Clean Air Awards luncheon to be held on Friday, October 6, 2017 at the Millennium Biltmore Hotel in Downtown Los Angeles.



South Coast Air Quality Management District

21865 Copley Drive
Diamond Bar, CA 91765-4178
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@SouthCoastAQMD

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Briefly...

Rule Compliance Promotion Classes

Rule 403 – Dust Control in the South Coast Air Basin Training

- Every third Wednesday of the month: January through November.

This class is held at SCAQMD's Diamond Bar Headquarters from 8:30 a.m. to 11:30 a.m. There is no fee. Pre-registration is required and walk-in registrations are not allowed.

Visit aqmd.gov/home/programs/business/training-403-403-1-fugitive-dust (and click on "south coast" near the top of the page) for class and registration information. To register, e-mail dustcontrol@aqmd.gov or call toll-free 1-866-861-3878.

Rule 403 & 403.1 – Dust Control in the Coachella Valley Training

- Every third Thursday of the month: January through November.

This course is held from 1:00 p.m. to 4:30 p.m. at the Coachella Valley Association of Governments, Room 115, 73-710 Fred Waring Dr., Palm Desert, CA, 92260. There is no fee. Pre-registration is required and walk-in registrations are not allowed.

Visit aqmd.gov/home/programs/business/training-403-403-1-fugitive-dust (and click on "coachella valley" near the top of the page) for class and registration information. To register, email dustcontrol@aqmd.gov or call toll-free 1-866-861-3787.

Rule 461 – Gasoline Transfer and Dispensing Training?

Daily Maintenance Inspection Class

- June 16, 2017
- October 20, 2017

The class fee is \$153.21 per person. (fee increase after July 1, 2017)

Vapor Recovery System Tester Orientation Class

- June 9 2017
- August 18, 2017
- October 27, 2017

The class fee is \$159.41 per person. (fee increase after July 1, 2017)

Periodic Compliance Inspection Class

- June 2, 2017
- October 13, 2017

The class fee is \$167.68 per person. (fee increase after July 1, 2017)

Classes meet at SCAQMD headquarters in Room CC6 from 8:30 a.m. to 5:00 p.m. Check-in time is 8:00 a.m. to 8:30 a.m. Pre-registration is required and walk-in registrations are not allowed.

Visit aqmd.gov/home/regulations/compliance/gasoline-dispensing2/rule-461-classes for class and registration information. Contact Michele Martinez at (909) 396-3058 or MMartinez1@aqmd.gov for more information.

Rule 1403 – Asbestos Demolition and Renovation Compliance Training

- June 21, 2017

Classes are held at SCAQMD's Diamond Bar Headquarters (Room CC6) from 8:00 a.m. to 1:00 p.m. Registration fee is \$83.39 per person. Pre-registration is required and walk-in registrations are not allowed.

Visit aqmd.gov/home/programs/business/training-1403-asbestos-demolition for class and registration information. Contact Sharon Fujimoto via email at SFujimoto@aqmd.gov or call (909) 396-2183 for more information and to register.

Rule 2202 - Employee Transportation Coordinator (ETC) Training

- May 11, SCAQMD Headquarters, Diamond Bar
- May 25, Courtyard by Marriott, Burbank
- June 8, SCAQMD Headquarters, Diamond Bar
- June 22, LAX Flight Plath, Los Angeles

Classes are held from 8:00 a.m. to 5:00 p.m. each day. Registration fee is \$172.97 per person. Enrollment is limited. Pre-registration is required and walk-in registrations are not allowed.

Visit aqmd.gov/home/programs/business/training-2202-etc for class and registration information. To register, e-mail etctraining@aqmd.gov or call (909) 396-2777.

SCAQMD ADVISOR

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