



SCAQMD

*Cleaning
the air
that we
breathe...*

ADVISOR

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What Schools Are Doing to Address Air Quality

To protect the health of students, a number of school districts throughout the South Coast Air Basin are taking various measures to improve air quality at the local and neighborhood level.

One example is the Walking School Bus Project (walkingschoolbus.org) from the National Center for Safe Routes to School. As anyone living near an elementary school can attest, traffic congestion due to drop-offs and pickups in the morning and afternoon can be heavy. With a 'walking school bus,' volunteers are stationed along an established route to ensure the safety of children walking to school. As the program increases students' safety and encourages walking, it also significantly cuts vehicle idling.

Geri Castro, principal of Riverside's Longfellow Elementary School, said the program "encourages a safe, healthy, and active lifestyle for our community."

Another air quality protective measure some schools have undertaken is installing high-performance air filtration systems in the classroom. Pollutant-impacted schools in Long Beach, Boyle Heights, and San Bernardino, among others, have installed high-efficiency systems (with grant assistance from SCAQMD) to filter out particles from nearby facilities and heavily-trafficked freeways.

Some schools are also helping to clean the air by adding electric school buses to their fleets. SCAQMD recently awarded a total of \$8 million to several school districts for battery electric school buses along with related charging infrastructure.



Many Resources Available for Schools to Teach About Air Pollution

Do schools teach about air pollution to California students? The answer depends on the school. Learning about air quality is not a key component of California's K-12 Public school science standards, but it is touched upon in various grades. For instance, fourth graders are taught that energy and fuels are derived from natural resources and their uses affect the environment. Sixth graders learn about earth science and are taught to apply scientific principles to develop a method to minimize human impact on the environment. Some schools have their own sustainability programs involving air quality components, and may use a variety of resources available on the Internet.

Online resources teaching kids about air pollution are abundant. AirNow (airnow.gov) created by the U.S. Environmental Protection Agency provides teachers with curriculum resources such as a toolkit and workshop

presentations to explain the Air Quality Index, a color-coded scale used to communicate the level of pollution in the air.

The California Air Resources Board (CARB) offers students and teachers air quality information, activities, and lessons in the "Know Zone!" (at arb.ca.gov/knowzone/knowzone.htm). TeachEngineering (teachengineering.org), a collaborative project between faculty, students and teachers associated with five founding partner universities, and supported by the National Science Foundation, is a searchable, web-based digital library collection populated with standards-based engineering curricula for use by K-12 teachers. Students learn what causes air pollution and are introduced to air quality research and control technologies.

SCAQMD to Co-Host Air Quality Sensors Conference

On September 27-28, 2017, SCAQMD, the California Air Pollution Control Officers Association, and the Bay Area Air Quality Management District will co-host "Making Sense of Sensors", a two-day networking conference at SCAQMD's Diamond Bar headquarters. This event will gather experts from government, academia, environmental and research organizations, and industry to learn and share the latest information on air quality sensors. The conference will also feature an exhibit with tabletop and poster displays as well as offer tours of SCAQMD's Air Quality Sensor Performance Evaluation Center (AQ-SPEC), which was created in 2014 as the nation's first test center to conduct comprehensive performance assessments of commercially available, low-cost, portable air quality sensors.

For more information and to register, visit aqmd.gov/aq-spec/conference-2017, email events@aqmd.gov or call (909) 396-3240.



Choice of Cool Roofing Materials Can Impact Region's Air Pollution

In a groundbreaking study, scientists at SCAQMD and the University of Southern California have found that widespread installation of certain “cool roof” materials in the region could slightly increase ozone and fine particulate pollution levels.

Science has previously proven that replacing darker roofs and building material with highly reflective materials can reduce peak daytime temperatures; however, certain cool-roofing materials reflect more ultraviolet light than their counterparts, increasing the potential for ozone formation.

The study was conducted by a team of SCAQMD scientists led by Scott A. Epstein, Ph.D., in collaboration with George Ban-Weiss, Ph.D., a professor of civil and environmental engineering at USC. To predict the air quality impacts of the cool roof materials, the team used sophisticated meteorology and air quality computer models, measured cool roofing material properties, and created detailed databases of the region's rooftops. Cool roofs are typically light-colored and highly reflective, and current statewide energy efficiency standards are expected to increase their use.

The study explains how the predicted increase in ozone levels can be minimized or possibly avoided by requiring more comprehensive performance standards for cool-roofing materials. Small increases in fine particulate (PM_{2.5}) levels are predicted to occur regardless of the enhanced standards.



SCAQMD's Rideshare Survey

Ridesharing is one way to reduce emissions from motor vehicles. In the Southland, SCAQMD promotes ridesharing through its Rule 2202. This rule requires employers with 250 or more employees at a worksite to implement an emission reduction program that will reduce air pollution by achieving a specific emission reduction target for that employer.

Alternatively, employers may choose to create an Employee Commute Reduction Program (ECRP) to achieve and maintain their target for the average number of people riding together in a vehicle to work, known as average vehicle ridership (AVR). Each year, employers who choose this option submit an ECRP to SCAQMD to demonstrate they are meeting their ridership target.

Since SCAQMD has more than 700 employees, it is also subject to Rule 2202. SCAQMD has a target of 1.5 riders per vehicle, which it has exceeded by its current AVR of 1.74. In addition, SCAQMD employees, as well as those working for other employers choosing the ECRP option, are required to complete an annual Rideshare Survey, taken over five consecutive workdays. Employees are asked to specify their transportation modes used to travel to the worksite during the 6:00 – 10:00 a.m. window, each day during the survey week. Data collected is used to calculate the AVR. The survey also captures the number of employees who commute to work by electric vehicles.

SCAQMD has approximately 50 employees who commute in zero emission vehicles and more who drive near-zero emission vehicles. These vehicles can utilize the 61 EV chargers and hydrogen fueling station located at SCAQMD's headquarters.

How Students are Helping the Environment

From implementing environmental projects at schools to advocating for air filtration systems in a local elementary school to becoming one of the youngest people in the country to be accredited in sustainable building standards, more and more youth are taking personal responsibility for protecting our environment.

Among young people who are making a difference, Carolyn Lam is part of the Green Ambassadors Internship at Environmental Charter High School (ECHS) in Lawndale and has served as a volunteer for Energy Upgrade California to help Californians take actions to save energy, conserve natural resources and make informed energy management choices. Carolyn worked with Tree People and SpaceX to improve communities with green spaces to help lessen the effects of air pollution and climate change. Along with ECHS classmates Tesia Scott, Gaby Morales and Brittny Castillo, Carolyn passed the Leadership in Energy and Environmental Design (LEED) Green Associate

exam, making them some of the youngest people in the country to become LEED Professionals.

In the Los Angeles neighborhood of Boyle Heights, youth-based nonprofit Legacy LA has worked to empower hundreds of young people in Ramona Gardens, one of the oldest public housing complexes in Los Angeles. The complex borders a busy 12-lane freeway, a rail line, heavily traveled surface streets, and an industrial district of factories and warehouses. Children and seniors in Ramona Gardens suffer from unusually high rates of asthma.

Legacy LA's Youth Council, comprised of residents of Ramona and Gardena aged 14 to 18, collaborate with local stakeholders and public agencies on ways to improve their neighborhood. Among its successes, members of the Youth Council lobbied for air filtration systems to be installed at two local elementary schools. SCAQMD provided the equipment in 2015 to reduce the level of outdoor pollutants inside classrooms.



Tickets Now Available for 29th Annual Clean Air Awards

SCAQMD will host its 29th Annual Clean Air Awards luncheon on Friday, October 6, 2017, 11:30 a.m., at the Millennium Biltmore Hotel in Downtown Los Angeles.

The annual luncheon will recognize individuals, businesses, organizations and government entities for their commitment to improving the Southland's air quality. The Clean Air Awards honor those that have made outstanding strides toward clean air, while also encouraging and

motivating those in their community to get involved, and to make clean air a priority.

Awards will be presented in the categories of Innovative Clean Air Technology, Model Community Achievement, Clean Air Education and Outreach, Business Leadership in Air Quality, and Youth Leadership in Air Quality.

Visit CleanAirAwards.com to purchase tickets. Tickets are on sale for \$40 each, or \$400 for a table of ten. For additional information, call (909) 396-2432.

SCAQMD Guidance Informs School Districts about Health Risks near Freeways

In 2003, state lawmakers passed a law restricting school districts from siting new K-12 schools within 500 feet of major freeways. This was based on studies showing harmful levels of pollutants are several times higher in areas next to freeways, compared to typical concentrations.

Studies have shown these pollutants, which include carbon monoxide, ultrafine particles, and black carbon (soot), increase the risk of adverse public health impacts such as low birth weight, cardiovascular diseases, and increased incidences of asthma and other respiratory symptoms in children. Traffic emissions have also been shown to increase the risk of developing cancers due to the toxic pollutants present in vehicle exhaust.

After the law was enacted, both SCAQMD and the California Air Resources Board (CARB) issued guidance to school districts recommending districts consider proximity to nearby freeways and other emission sources when selecting sites for new schools. However, the law has an exception: schools can be built close to freeways if no alternative site exists, the school district undertakes all feasible mitigation measures, and the benefits of the project outweigh the risks.

A technical advisory supplement to CARB's guidance document, revised in 2017, lists science-based strategies to reduce exposure to traffic emissions near high-volume roadways. These include strategies to reduce traffic, methods to reduce the concentration of pollution along those corridors, and recommendations to install indoor air filters to remove pollution from indoor air.

These strategies are designed to reduce pollution in the near-term until the full benefits of statewide programs to reduce air pollution from cars and trucks take full effect. One such statewide program is CARB's Mobile Source Strategy to move toward zero-emission vehicles. CARB's Strategy, issued in May 2016, calls for putting more than 4 million zero-emission vehicles on the road by 2030.

Several Books Explain Air Pollution to Kids

Children of nearly any age can benefit from quality learning resources about air pollution, especially well-written books. Young children can gain basic concepts from picture books, while adults read the text aloud and explain the deeper meaning.

Two examples of picture books focused on air pollution are "Air" by Israel Felzenszwalb and David Palatnik, which shows the importance of air throughout nature, and "Every Breath We Take: A Book About Air" by Maya Ajmera and Dominique Browning, which introduces children to the importance of clean air and features children from around the world.

Children who enjoy reading on their own can get practical tips for protecting the planet and reducing air pollution from "Why Do We Need Air?" by Kelley Maclay, or "Air Pollution! How to Limit the Pollution of the Air" by Baby iQ Builder Books. These books are a call to action and include specific steps, such as energy conservation, recycling and clean air technologies. Carol Greene's "I Love Our Air," also explains to young readers why we have air pollution and the actions people can take to protect our air.



Back to School: Kids, Sports, and Asthma Management

While the overall air quality in the South Coast Air Basin has been improving over the past several decades, the region still has some of the worst ozone problems in the country. Ozone air pollution can cause respiratory problems, and children with asthma are particularly susceptible to the negative effects of ozone on their lungs.

In California, approximately ten percent of kids under 18 have active asthma. As many kids are going back to school this season, parents, schools, and youth sports organizations may be interested in getting information about local air quality to help plan outdoor sports activities.

To provide air pollution information to the public, SCAQMD issues air quality advisories when there is smoke or air quality that may be unhealthy. SCAQMD's website also displays the Air Quality Index (AQI), a real-time color-coded tool that communicates the level of health concern based on the air pollution levels. This information can guide parents, school officials and coaches on what types of athletic activity may be appropriate at the time. For example, the Diamond Bar AYSO, the local youth soccer league in the city where SCAQMD headquarters is located, limits its games to 60 minutes if the local AQI designates the air quality

as "Unhealthy," and cancels games if the air quality is "Very Unhealthy."

Public health experts recommend that all kids who have asthma have an asthma action plan, which is a written plan developed with the child's doctor to help control asthma. Asthma action plans are tailored to the individual patient, including descriptions of medications and what steps to take when asthma symptoms occur. Coaches should meet individually with parents to discuss their child's asthma action plan in order to help prevent asthma attacks.

Regular exercise is important for both kids and adults, and keeping asthma well-managed is important to encourage exercise. Because air pollution is one factor that can trigger asthma symptoms, keeping up with air quality forecasts is recommended to help guide outdoor exercise activities. On smoggy days, schools can try to plan outdoor activities earlier in the morning, when ozone levels are lower.

School officials, coaches, parents, and all others can sign up for forecasts, advisories, and real-time air quality alerts by email or text at AirAlerts.org. Air quality maps and other information can be found on the SCAQMD website at aqmd.gov/home/library/air-quality-data-studies.



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.

September

Rule 1401 – New Source Review of Toxic Air Contaminants

Amendments will update requirements for gas stations and paint booths, include additional air toxics, and will consider additional administrative changes.

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

October

Rule 1168 – Adhesive and Sealant Applications (CTS-02) Contaminants

Amendments to Rule 1168 will partially implement CTS-02 and reflect improvements in adhesive and sealant technology, as well as remove outdated provisions and include minor clarifications.

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

November

Rule 1148.3 – Requirements for Underground Gas Storage

Proposed Rule 1148.3 will establish requirements to address public nuisance and VOC emissions from underground natural gas storage facilities.

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

Proposed Rule 1180-Refinery Fenceline and Community Monitoring

This proposed rule will establish requirements for fenceline and community monitoring at petroleum refineries.

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

Rule 1407 & Rule 1407.1 – Control of Emissions of Arsenic, Cadmium and Nickel from Non-Ferrous Metal Operations

Proposed Rule 1407 will establish additional requirements to minimize air toxics from metal operations. Staff is analyzing sources subject to Rule 1407 and may develop a separate Rule 1407.1 for the largest sources subject to Rule 1407.

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

Rule 1420-Emission Standard for Lead

In October 2008, U.S. EPA lowered the National Ambient Air Quality Standard (NAAQS) for lead from 1.5 to 0.15 µg/m³. Amendments to Rule 1420 will establish requirements for lead-emitting sources that are not covered under Rules 1420.1 and Rule 1420.2 to ensure compliance with the lead NAAQS.

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

Proposed Rule 1435-Control of Emissions from Metal Heat Treating Processes

Proposed Rule 1435 would establish requirements to reduce metal particulate emissions from heat treating processes.

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

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENVIRONMENTAL JUSTICE CONFERENCE

Saturday, December 2, 2017 • 8:30 AM - 3:30 PM

Center at Cathedral Plaza • Los Angeles • aqmd.gov/ejcp • 909-396-3511

Environmental Justice Events Happening Across the Air Basin

In an effort to strengthen its relationship with environmental justice communities, SCAQMD has been hosting a series of events throughout the region, to hear from community members and provide them with resources to address air quality problems in their neighborhoods.

On June 28th, SCAQMD hosted the Los Angeles County Inter-Agency Workshop on Environmental Complaints. The event brought together environmental justice leaders and executives from multiple federal, state, and Los Angeles County government agencies to discuss how they can better collaborate on processing environmental complaints.

At Las Palmas Park in the City of San Fernando, SCAQMD hosted a community workshop on air pollution on July 20th. The event enabled participants to learn about air quality and to work with their neighbors to identify and discuss areas in their community that are potential sources of pollution. Senior SCAQMD staff responded to questions and concerns from the participants. The event also recognized Pacoima Beautiful for their environmental justice efforts in the northeast San Fernando Valley.

On August 30th, SCAQMD hosted a similar workshop in San Bernardino where they honored local nonprofit Reach Out for the work they do to help improve the environment and public health in that area. Upcoming workshops are scheduled for September in Irvine and October in Thermal.

In addition, on Saturday, December 2, 2017, SCAQMD will host its third annual Environmental Justice Conference at the Center at Cathedral Plaza in Downtown Los Angeles. Attendees will learn about the latest trends in environmental justice, as well as current events, policies, technologies, and other issues affecting disadvantaged communities. Admission, parking, breakfast and lunch will be complimentary. Spanish translation will be available. Registration for all upcoming events is at <https://ejconference2017.eventbrite.com>.

CLEAN AIR People

Tammy Bird, Carson High School

With their home situated between the 110 Freeway to the West, the 405 Freeway to the North, Andeavor (formerly Tesoro) refinery and CSX-Union Pacific ICTF railyard to the East, and the twin ports of Los Angeles and Long Beach to the South, Carson High School Environmental Science teacher Tammy Bird and her husband Tui have managed to create a magical “urban forest” as an oasis in the very heart of the city. Complete with a variety of fruit trees, a solar-powered fountain, and a collection of birds – including chickens, ducks, geese and even a peacock – they have managed to build a natural green space within all of the surrounding concrete and asphalt.

Bird has been a teacher with the Los Angeles Unified School District (LAUSD) for the past 33 years, the last 16 of which she has been at Carson High School. She is a firm believer in balancing technology and nature. Under her guidance, Carson High School’s Environmental Science Engineering



and Technology (ESET) Academy has grown by leaps and bounds, preparing students to not only become upstanding and productive members of society, but also good environmental stewards.

Bird leads annual trips for her students to Grand Teton National Park, Wyoming and local trips to the South Coast Botanic Garden, Palos Verdes and Cabrillo Beach in San Pedro. While teaching at Crenshaw High School, she started a student-run company, “Food from the Hood,” that sold a line of organic salad dressings. She is hoping to start a “Garbology” class to teach students proper methods of recycling and composting; this is in response to a new state law that requires 75% of California’s solid waste be source reduced, recycled, or composted by 2020. Her students will be well-prepared to craft a greener future.

Summer Interns Gain Valuable Experience



Every summer, SCAQMD’s Governing Board members select highly qualified students to participate in SCAQMD’s Internship Program. This year, SCAQMD received 82 applications, from which 31 students were selected to participate. SCAQMD welcomes students to intern for various departments throughout the facility and provides them with an opportunity to gain professional work experience within all divisions of the clean air agency.

“The students are provided with an amazing opportunity to learn how things work at our agency and to get a true sense and understanding of SCAQMD’s mission”, said Bill Richards, SCAQMD’s Human Resources Manager.

At the start of their internship, the students are given a two-day orientation with presentations covering topics such as Southern California air quality and its effects on health, social media, clean fuel vehicles, and SCAQMD’s small business assistance and community outreach programs.

The interns work under supervisors in their designated units who assign them with various tasks and projects throughout the summer. Intern Emily Bangar said she liked working for the Compliance and

Enforcement division because of the ability “to go into the field and gain insight to the duties of SCAQMD’s Inspectors.” Intern Mitchell McMahon who worked for the Legislative, Public Affairs and Media division, liked that he obtained hands-on experience presenting on behalf of SCAQMD at meetings of local and regional organizations.

The students also were taken on field trips to environmental justice locations to better understand the region’s air quality challenges and what SCAQMD is doing to clean the air. “Because of my internship at SCAQMD, I have become more educated and conscious of environmental issues”, said intern Clea Lerner, who also worked in the Legislative, Public Affairs and Media division.

Student interns at SCAQMD leave the internship with invaluable experience of what it is like to work in a professional environment “side-by-side with chemists, engineers, environmental specialists, analysts and a variety of other staff members”, said Richards.

Those interested in applying for SCAQMD’s internship program for next summer should email their resume and cover letter to intern-apply@aqmd.gov beginning in mid-February 2018.



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. No classes are held in December.

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

- October 20, 2017
The class fee is \$157.04 per person.

Vapor Recovery System Tester Orientation Class

- October 27, 2017
The class fee is \$163.40 per person.

Periodic Compliance Inspection Class

- October 13, 2017
The class fee is \$171.87 per person.

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 Rule 461 Assistance at (909) 396-3546 or Rule461Assistance@aqmd.gov for more information.

Rule 1403 – Asbestos Demolition and Renovation Compliance Training

- October 18, 2017
• December 13, 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 1469 – Compliance Assistance: Mandatory Hexavalent Chromium Training Certification

- January 25, 2018
• February 22, 2018
• March 29, 2018
• April 26, 2018
• May 17, 2018 (Spanish-Only Class)

Classes are held at SCAQMD's Diamond Bar Headquarters in Room CC6 from 1:00 p.m. to 4:00 p.m. each day. Registration fee is \$33.95 per person. Enrollment is limited. Pre-registration is required and walk-in registrations are not allowed.

Visit aqmd.gov/home/programs/business/training-1469-hexavalent-chromium 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

- September 13, SCAQMD Headquarters, Diamond Bar
 - September 27, Courtyard Marriott, Culver City
 - October 12, SCAQMD Headquarters, Diamond Bar
 - October 26, University of California, Irvine
 - November 9, SCAQMD Headquarters, Diamond Bar
 - November 30, Marriott Hotel, Riverside
 - December 13, SCAQMD Headquarters, Diamond Bar
- 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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