

Annual **30th** *Clean Air Awards*



South Coast Air Quality Management District

Friday, October 5, 2018 • The L.A. Grand Hotel Downtown



South Coast Air Quality Management District

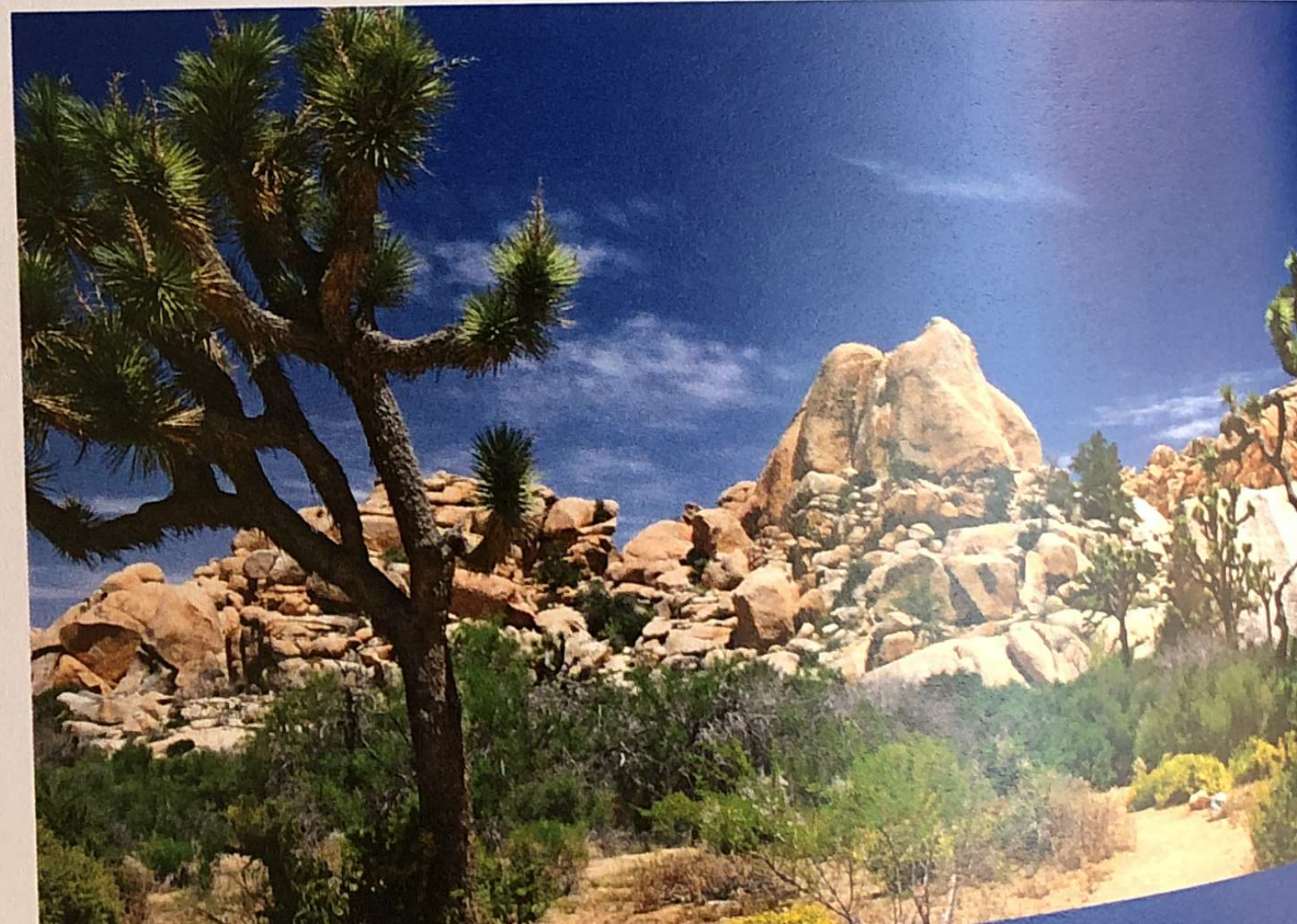
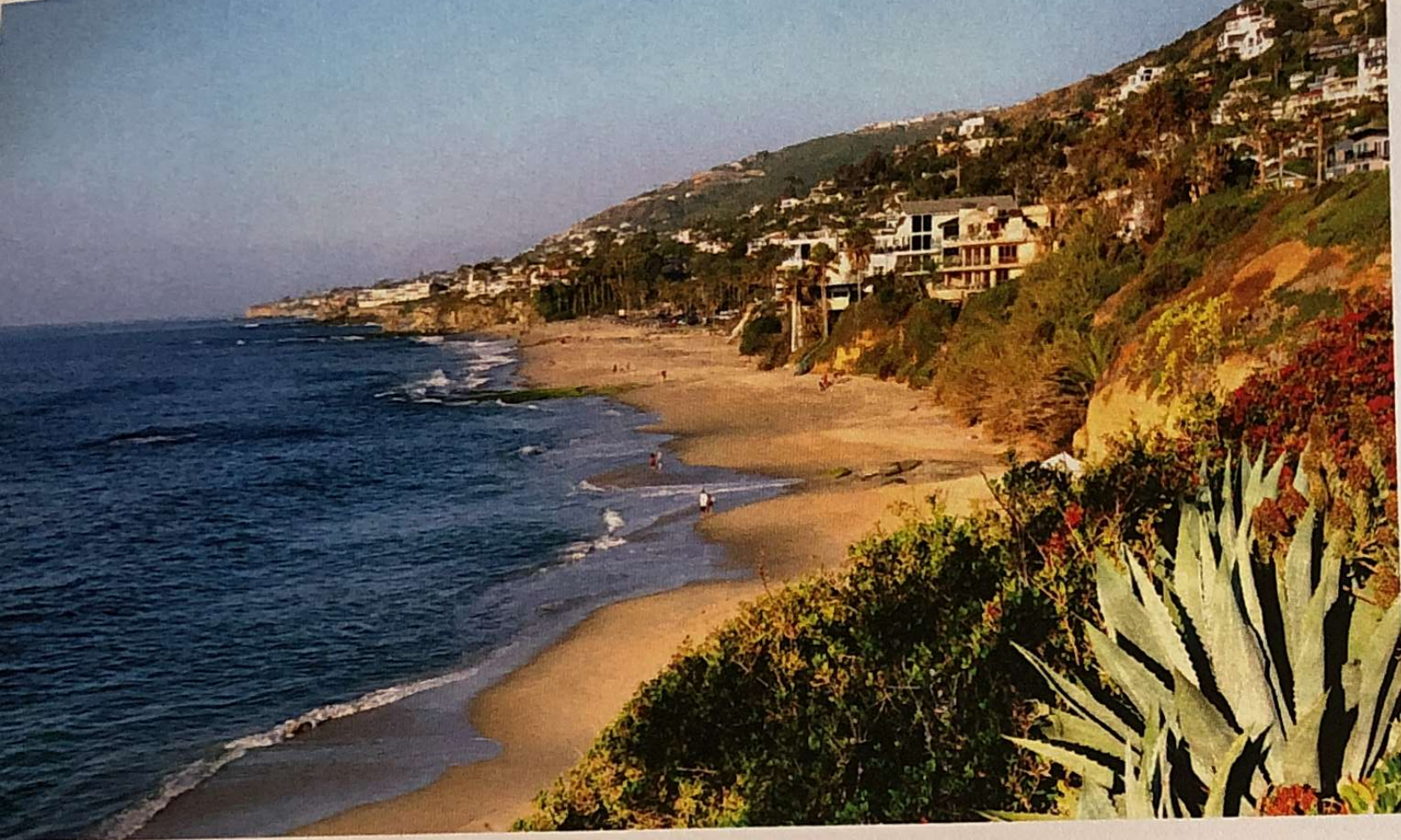


South Coast Air Quality Management District

The South Coast Air Quality Management District (SCAQMD) is the regional air pollution control agency for the urban areas of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange county - an air district that encompasses over 10,700 square miles and more than 16 million residents.

SCAQMD is committed to protecting the health of area residents while also supporting a healthy business environment. We engage in cooperative partnerships with private industry, academic and research institutions, technology developers, fellow public agencies, and community stakeholders to accelerate cleanup solutions, foster sustainable business development, empower better urban planning choices, and promote clean-technology advancement.

We believe that by working together, we can breathe cleaner air, live healthier lives, and benefit from a more sustainable economy.



Members of the Governing Board

Chairman

William A. Burke, Ed.D.
Assembly Speaker Appointee

Vice Chairman

Clark E. Parker, Sr., Ph.D.
Senate Rules Committee Appointee

State Representative

Joseph K. Lyou, Ph.D.
Governor's Appointee

County Representatives

Hilda L. Solis
Supervisor, Los Angeles County

V. Manuel Perez
Supervisor, Riverside County

Janice Rutherford
Supervisor, San Bernardino County

Shawn Nelson
Supervisor, Orange County

Cities Representatives

Ben Benoit
Mayor, Wildomar
Riverside County Cities

Joe Buscaino
Councilmember
City of Los Angeles

Michael Cacciotti
Councilmember, South Pasadena
Los Angeles County, Eastern Region

Judith Mitchell
Mayor Pro Tem, Rolling Hills Estates
Los Angeles County, Western Region

Larry McCallon
Mayor, Highland
Cities of San Bernardino County

Dwight Robinson
Councilmember, Lake Forest
Cities of Orange County

Executive Officer

Wayne Nastri



Message From The Chairman

October 5, 2018

Welcome to the 30th Annual Clean Air Awards. As Chairman of the South Coast Air Quality Management District, the Clean Air Awards is a time to recognize not only how far we have come in reducing air pollution but to those individuals, companies and organizations who have contributed to helping us. It has not been an easy road to attain the dramatic improvements in our regional air quality, and there is still a long way to go. We are still considered by the federal government to be an extreme nonattainment region for ozone. We have a short period of time to meet the mandates established by the federal government and we need everyone's help. Air pollution is impacting all of us; and, some communities continue to bear a greater share of the burden. Our health, quality of life, and livelihoods are all tied to this complex issue of air pollution.

However, I see great promise in a clean air future due to scientific and technological advances combined with forward thinking policies that are occurring in the South Coast Air Basin and the state of California.

So it is especially befitting that we are also celebrating the 30th Anniversary of the Clean Fuels Fund program and the 20th Anniversary of the Carl Moyer program. These pivotal programs have fueled the research, development, demonstration and deployment of cleaner engines and equipment in our region. Additionally, these programs have spurred the development of transformative transportation technologies that are zero and near zero emissions.

We have come a long way, and today we recognize those who are leading the way in their fields of expertise to make clean air an everyday reality. Please join me in celebrating our awardees and the promise for a clean air future.

Sincerely,



William A. Burke, Ed.D.

Chairman of the Governing Board

South Coast Air Quality Management District

Clean Air Awards Program

Welcome

Kaj Goldberg

KTLA 5 Anchor and Weathercaster

Presenting of the Flag

Color Guard of the Army JROTC

Blair High School

National Anthem

Alegra Rodriguez

Invocation

Reverend Frank Hicks

Chairman's Remarks

William A. Burke, Ed.D.

Presentation of Award Recipients

The Roy S. Wilson Award for Leadership in Government

Senate President pro Tempore Emeritus Kevin de León

The Robert M. Zweig, M.D. Memorial Award

Dr. Keith Black, M.D.

Model Community Achievement

Metrolink

City of Paramount

Innovative Clean Air Technology

Tesla

Clean Air Education and Outreach

California State University, Los Angeles EcoCAR3 Program

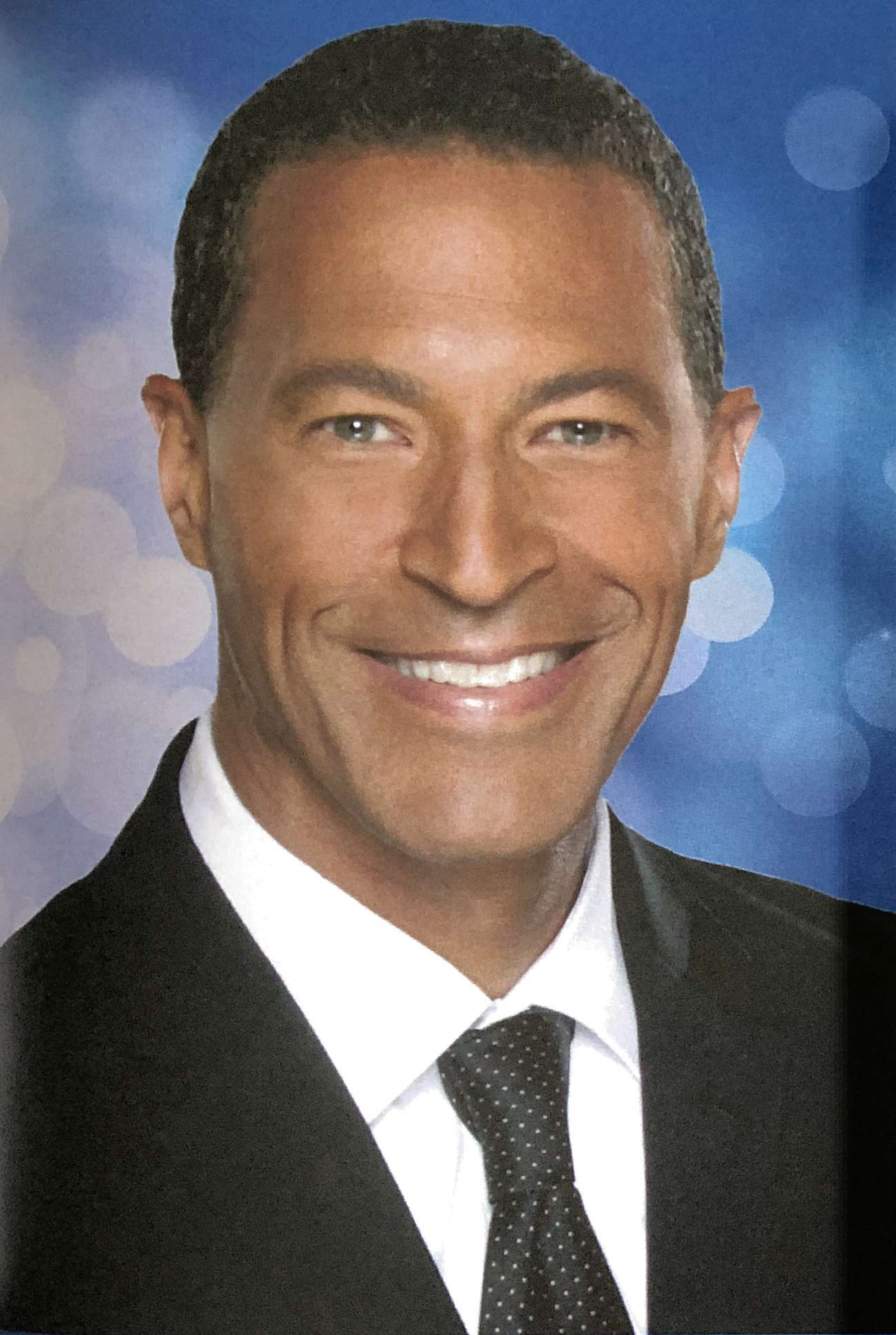
Business Leadership in Air Quality

Los Angeles World Airports

Proterra

Youth Leadership in Air Quality

GRID Alternatives Inland Empire



Master of Ceremonies

Kaj Goldberg

KTLA 5 Anchor and Weathercaster

Kaj Goldberg is a native of Los Angeles. He grew up in Tarzana, California, as a child and remained in the San Fernando Valley, graduating from Taft High School. He and his family have recently moved to Pasadena.

After living abroad in Europe for almost five years, Kaj decided to return home to California to pursue a bachelor's degree in communications from the University of San Francisco, where he combined his studies with his love of surfing, skiing and mountain biking.

Upon graduation, Kaj headed back home to Los Angeles, where he began working in the film and television industry. He rose quickly through the ranks of Fox TV, Paramount Television and MTV as a studio executive. But his love of news made him give up his studio career, and the journalism bug bit hard.

He was hired by CBS News in Palm Springs in 2002, and after just a year and a half, Kaj moved to the ABC affiliate in Phoenix, Arizona, as weather anchor/reporter. He then worked for CBS2 in Los Angeles before joining the KTLA weather team in 2015.

**S. Roy Wilson Memorial Award
for Leadership in Government**

This special award category was re-dedicated in 2009 in remembrance of S. Roy Wilson, Ed.D., former Riverside County Supervisor and SCAQMD Governing Board Vice Chairman. Dr. Wilson faithfully served for nearly 22-years as an SCAQMD Board Member and as a strong voice for healthful air and a healthy economy. This award is given to an individual who serves as a role model for genuine leadership toward balanced clean air progress.



The S. Roy Wilson Memorial Award for

Leadership in Government

Kevin de León

**President pro Tempore Emeritus of the California State Senate and
Represents the 24th Senate District in Los Angeles**

Kevin de León serves as President pro Tempore Emeritus of the California State Senate and represents the 24th Senate District in Los Angeles. Senator de León has focused on building a more prosperous, equitable, and sustainable economy for the 24th Senate District and all of California, including working to improve the environment and air quality.

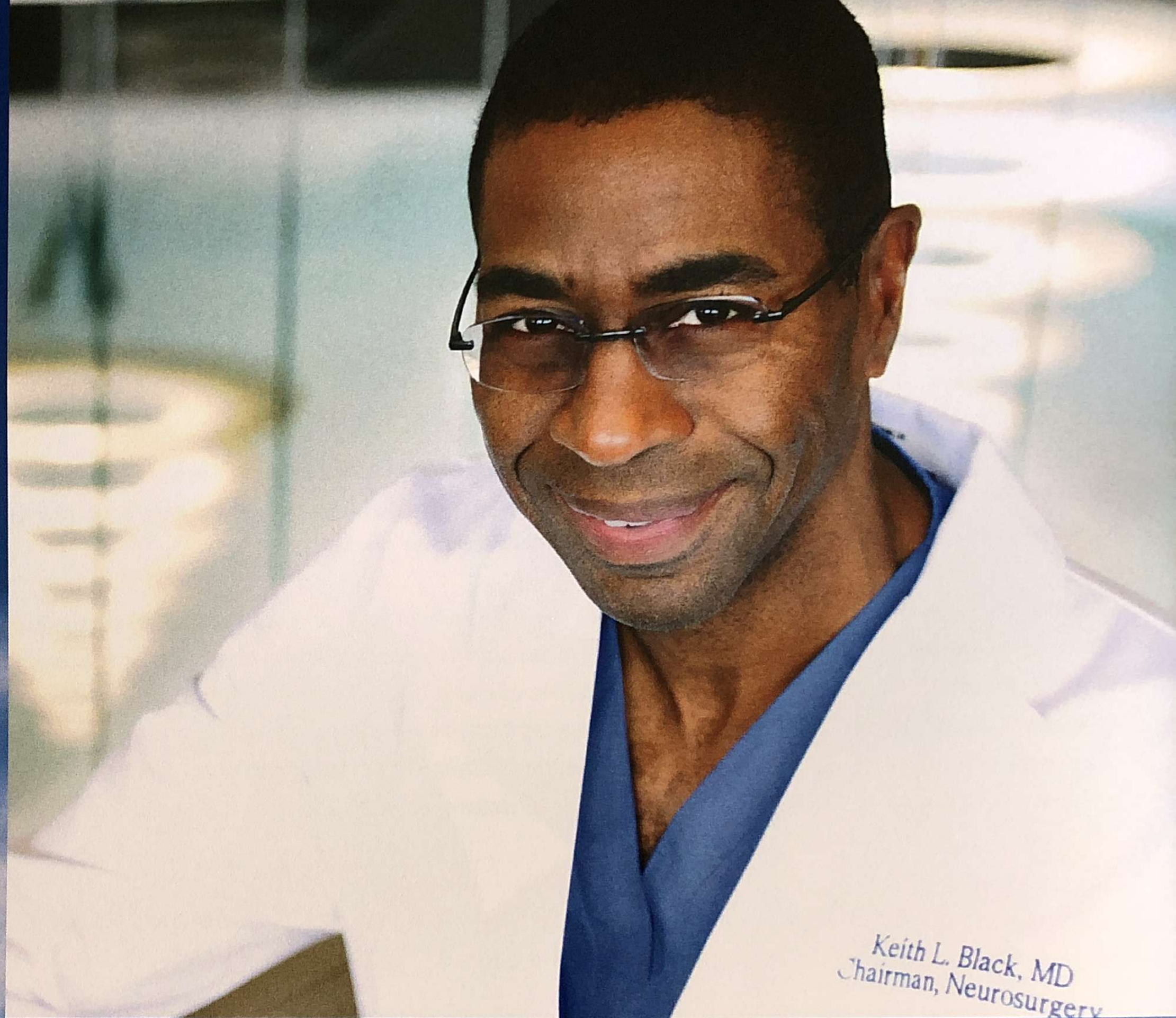
Senator de León has long been a champion for the environment and air quality, especially in disadvantaged communities. He successfully secured a quarter of all cap-and-trade revenue to be spent in disadvantaged communities to promote, clean air, jobs, transportation and energy efficiency. He also created a rebate initiative to make electric cars more accessible to working families. This year, Senator de León also played a central role in crafting a bipartisan agreement to extend California's cap-and-trade program with \$1 billion of the generated revenue to reduce diesel pollution and increase electrification of California's transportation and vehicles. Most recently, Senator de León's bill, SB 100, was signed into law by the Governor to require 100 percent of the electricity consumed in California to come from renewable sources by 2045.

Senator de León served four years in the Assembly before being elected to the Senate in 2010. He was the first Latino elected to the Senate President pro Tempore position in over a century.



**Robert M. Zweig M.D.
Memorial Award**

This award was established in honor of Dr. Robert M. Zweig, a family practice physician who for many years championed the cause of clean air. Each year, the award is given to a health professional who has shown a deep commitment to improving public health by reducing air pollution.



Robert M. Zweig, M.D. Memorial Award

Dr. Keith L. Black, M.D.

**Chairman and Professor, Department of Neurosurgery
Director, Maxine Dunitz Neurosurgical Institute
Cedars-Sinai**

Dr. Keith Black is Chairman and Professor of the Department of Neurosurgery, Director of the Maxine Dunitz Neurosurgical Institute, and Director of the Johnnie L. Cochran, Jr. Brain Tumor Center at Cedars-Sinai Medical Center. An internationally renowned neurosurgeon and researcher, Dr. Black's groundbreaking research includes designing ways to open the blood-brain barrier, enabling chemotherapeutic drugs to be delivered directly into the tumor. Dr. Black's other groundbreaking research focused on developing a vaccine to enhance the body's immune response to brain tumors, use of gene arrays to develop molecular profiles of tumors, the use of optical technology for brain mapping, the use of focused microwave energy to non-invasively destroy brain tumors, and retinal imaging for early diagnosis of Alzheimer's disease.

Dr. Black has also served as principal investigator for SCAQMD's Brain & Lung Tumor and Air Pollution Foundation investigating the effects of particulate matter (PM) exposure on brain tumor development. His studies sought to determine whether exposure to PM resulted in molecular changes in the brain that are associated with development of brain tumors or other brain disorders.

Dr. Black has published more than 300 peer-reviewed scientific papers and in 2009 published his book *Brain Surgeon: A Doctor's Inspiring Encounters with Mortality and Miracles*. Since 1987, he has performed more than 6,000 operations.



CEDARS-SINAI®

Model Community Achievement

This award is presented to an exceptional single program or comprehensive strategy that improves air quality and sustainability in a community or region. This award is intended to recognize collaborative/integrated efforts or programs involving the public, business, nonprofits and government.



Model Community Achievement

Metrolink (SCRRA) Tier 4 Commuter Rail

Smart, clean and green travel

Metrolink service runs across 538 route-miles in all four South Coast AQMD counties plus Ventura and North San Diego counties. Metrolink creates a more sustainable future for its riders and the communities it serves by providing efficient passenger rail service. Regional rail service not only provides residents with mobility, but it reduces traffic congestion and air pollution.

Metrolink is continuing its tradition as a transportation industry leader by upgrading its fleet of locomotives to become the first passenger rail in the nation to operate Tier 4 clean technology. The acquisition of the new locomotives was a collaborative effort by Metrolink, regional agencies, Member agencies, elected officials and community members.

The new SCRRA F125 Tier 4 locomotive is designed to be the cleanest running passenger locomotive in the United States. Compared to Metrolink's oldest locomotives, it reduces emissions by 85 percent and has 57 percent more horsepower.

There are five targets for F125 Tier-4 emissions reduction: NOx, PM, HC, CO and smoke opacity. The F125 Tier-4 locomotive reduces particulate matter and nitrogen oxide up to 85 percent. This reduction equates to 13.75 tons of emissions per year, equivalent to removing 783 passenger vehicles a year.

Taking Metrolink is a great way to minimize your environmental impact while also traveling efficiently and stress-free.

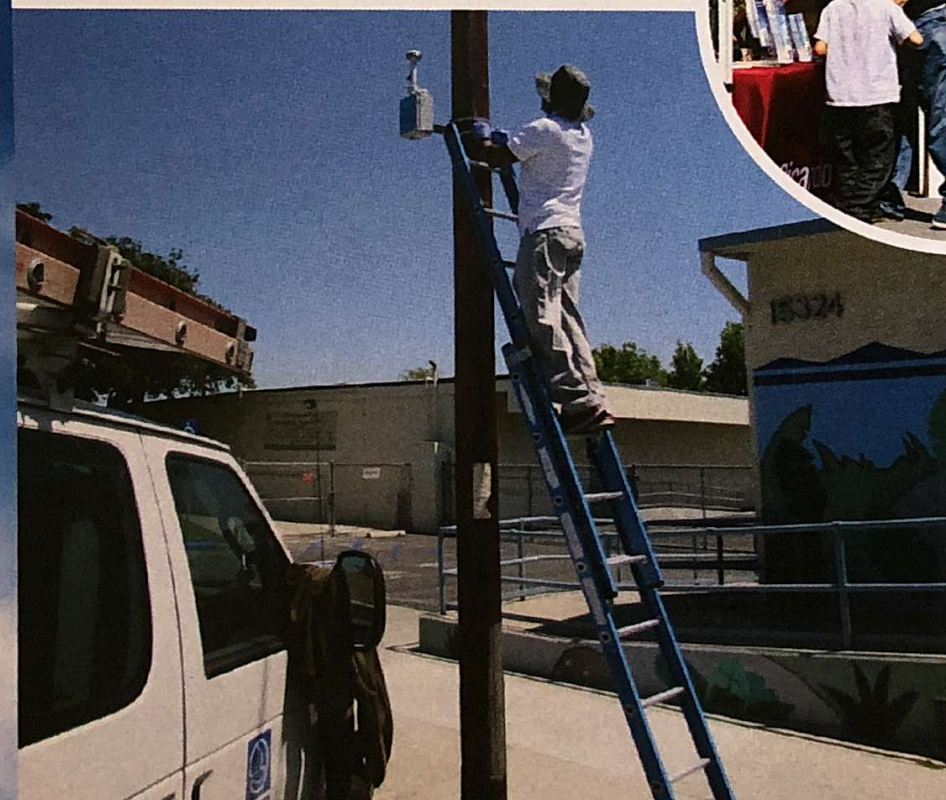
By choosing to take the train, Metrolink riders remove approximately 8.5 million weekday automobile trips per year.

Now, taking the train is the smartest, cleanest and greenest way to travel.



Model Community Achievement

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Model Community Achievement

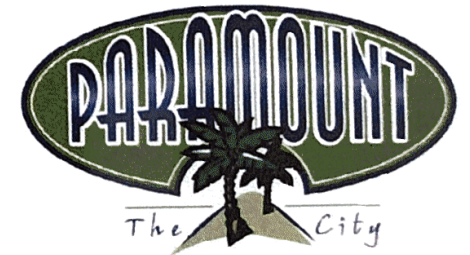
City of Paramount A Blueprint for Community Action

In the fall of 2016, unacceptably high levels of hexavalent chromium were detected near metal-related companies in the City of Paramount. When Paramount officials learned of the elevated numbers, they created an inclusive action "Project" with the goal of prioritizing the health of residents and improving air quality. The Project was an unprecedented multi-agency investigation that included collaboration from the SCAQMD, Los Angeles County Department of Public Health, the Department of Toxic Substances Control, Los Angeles County Fire Department, U.S. Environmental Protection Agency, California Air Resources Board, and other agencies.

The City also embarked on a series of monitoring and outreach efforts. These included implementing a best practices guideline for metal-emitting facilities and developing a new business license review process. Further, the City Council formed an Air Quality Sub Committee to gain input from residents and experts which culminated in zoning ordinance reform. The City additionally dedicated Code Enforcement staff to aid with SCAQMD inspections of facilities and purchased its own air samplers to ensure monitoring will continue into the future. To keep the public informed of all activities, actions, studies, and other details, the City's proactive approach also saw the development of an environmental portal – **ParamountEnvironment.org**.

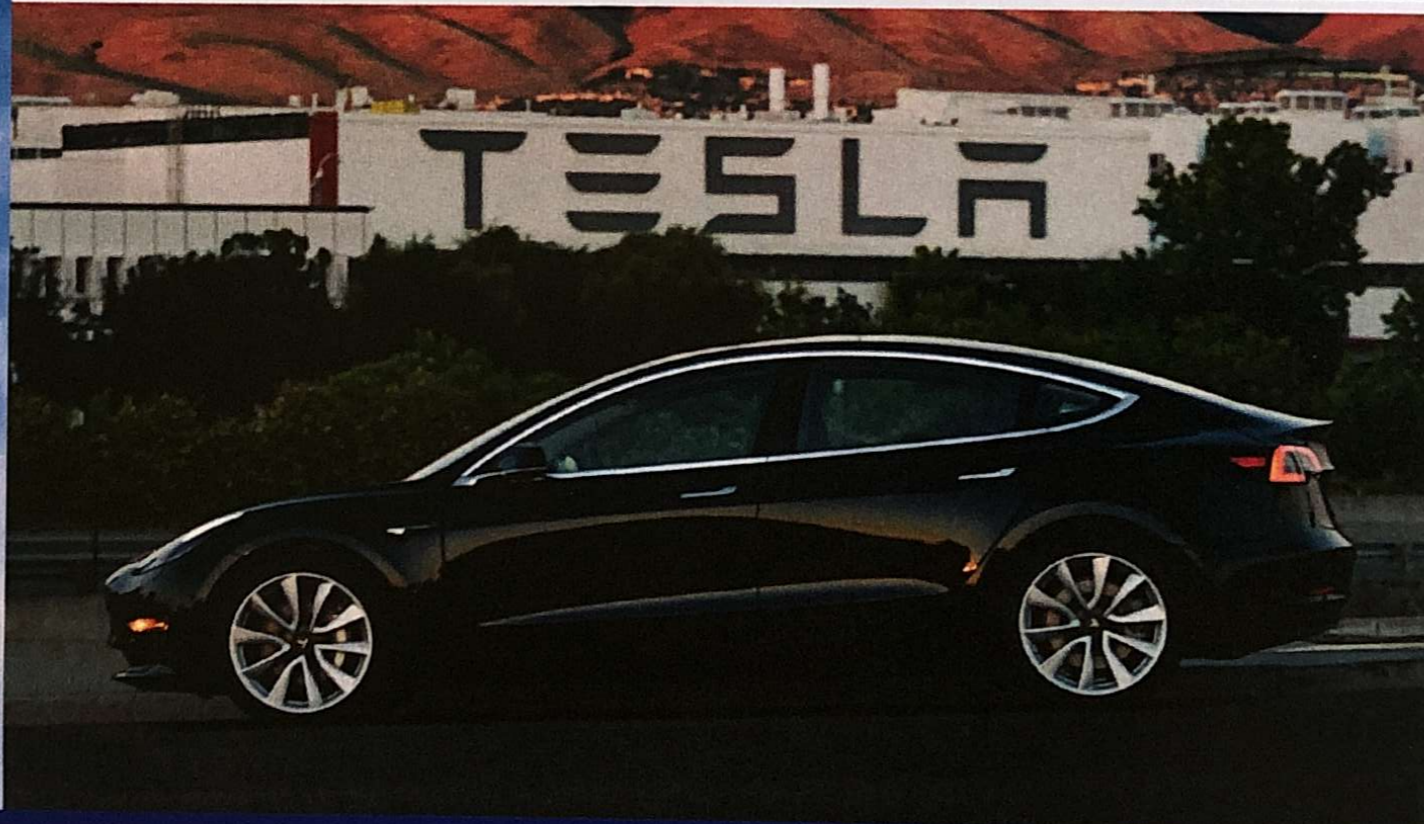
Paramount's extensive endeavors led to the successful lowering of emissions throughout the area and hexavalent chromium is now within typical ambient levels.

The City's work created a model blueprint for other communities on how to address air quality and other environmental issues through partnerships, outreach, education, and strong involvement by residents and local businesses.



Innovative Clean Air Technology

This award is presented for an extraordinary contribution to the development and application of a new and innovative technology designed to reduce emissions.



Innovative Clean Air Technology

Tesla

Accelerating the World's Transition to Sustainable Energy

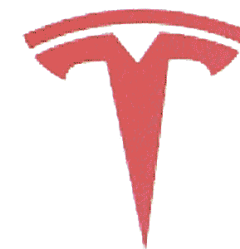
California's 2017 Climate Change Scoping Plan, charts the path for meeting the state's greenhouse gas emissions and air quality goals, specifically calling for major increases in zero-emission vehicles (ZEVs) and ZEV infrastructure. In January 2018, Governor Brown increased the state's ZEV goal from 1.5 million by 2025 to at least 5 million ZEVs by 2030.

Since Tesla's founding in 2003, their mission has been to accelerate the world's transition to sustainable energy by designing and building compelling electric vehicles and investing in ZEV charging infrastructure across the globe. Tesla's light-duty vehicles include the Model S sedan, the Model X SUV, and the new, more affordable Model 3 designed to bring electric vehicles to the masses.

Tesla is also pushing the boundaries for heavy duty class 8 trucks by introducing the Tesla Semi. The Semi prototype, unveiled last year, is a zero-emission, all electric truck offering an estimated range of 300 or 500 miles and significant fuel savings.

Tesla's innovative all electric vehicles have saved over 3.5 million tons of CO₂, and their cleaner transportation options will continue to provide benefits to our communities by reducing air pollution and improving public health.

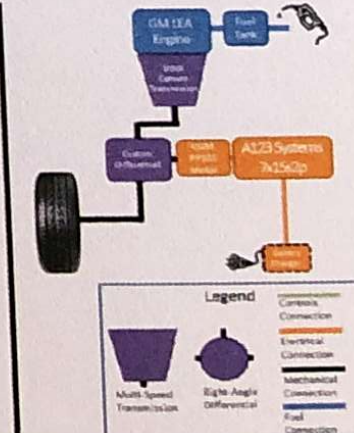
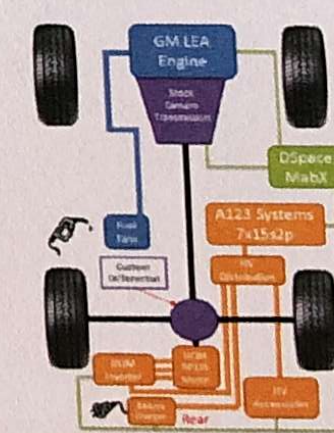
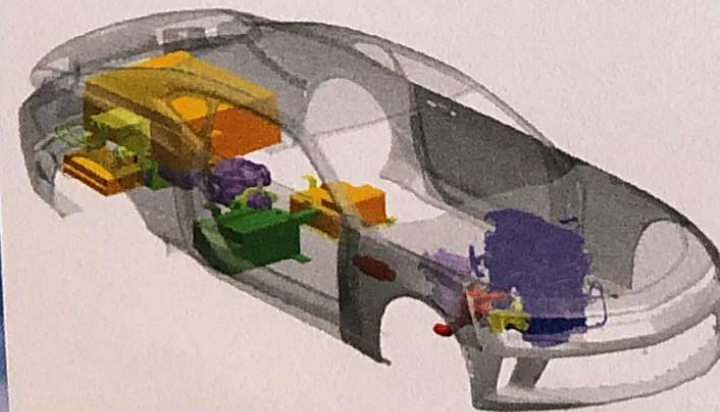
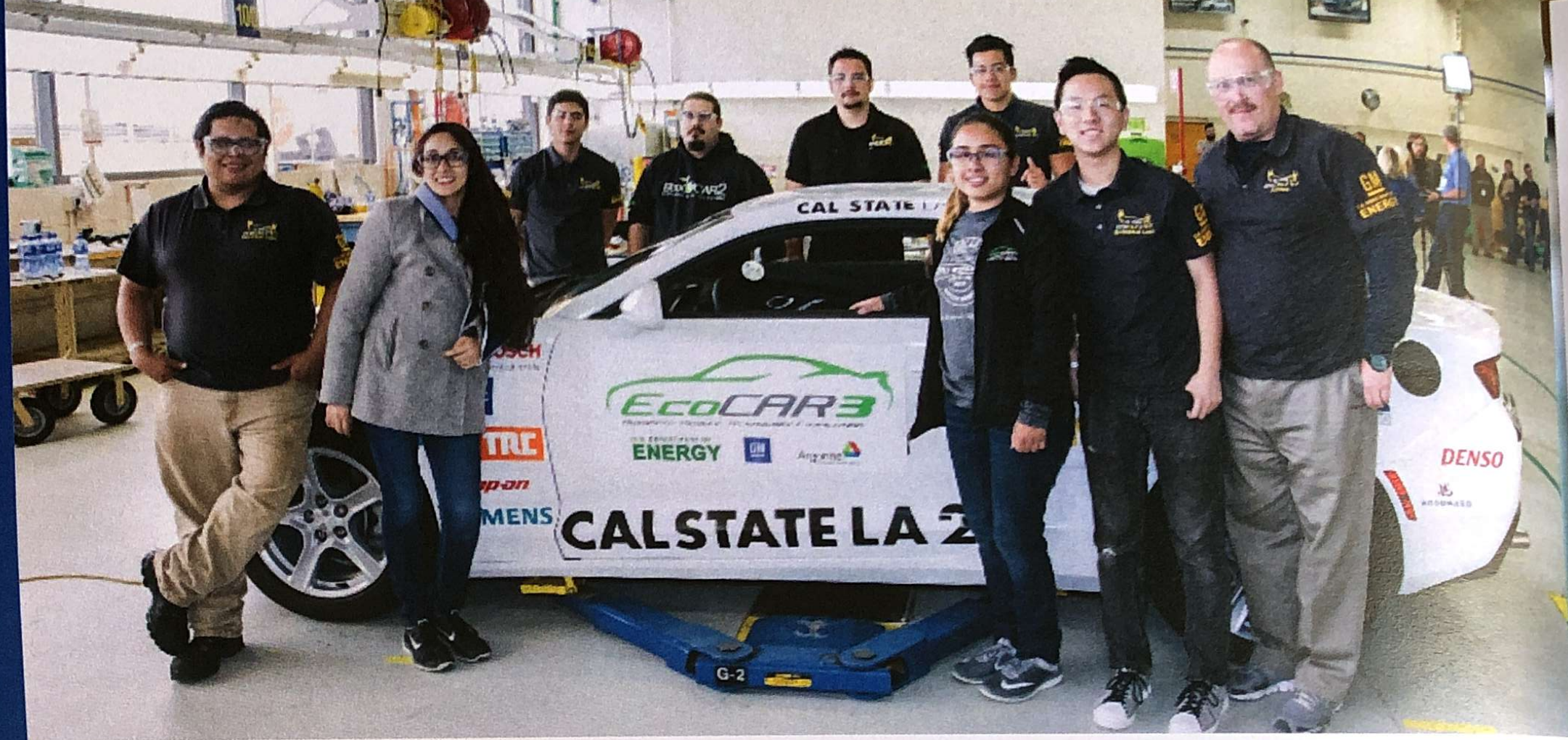
Tesla is pushing the bounds of innovation to bring a better quality of life for all through zero emission, sustainable technologies.



TESLA

Clean Air Education and Outreach

This award is presented for an outstanding individual or group effort designed to inform the public about air quality issues, promote efforts to improve air quality, or both.



Clean Air Education and Outreach

California State University, Los Angeles EcoCAR3

The Road to Clean Air

The California State University, Los Angeles' (Cal State LA) EcoCAR3 program is focused on the education and training of the next generation of advanced vehicle engineers that can design and build clean, zero-emission vehicles.

Over a seven year span, several hundred team members have received advanced vehicle design training. The team's outreach programs have educated several thousand K-12 students and the general public on clean air transportation solutions to help reduce smog and improve public health.

Through the involvement of the EcoCAR Advanced Vehicle Training Competition (AVTC), which is sponsored by the U.S. Department of Energy, General Motors and managed by Argonne National Laboratory, Cal State LA's EcoCAR3 students have made a positive impact on nearby communities by sparking interest in environmentally friendly vehicle alternatives. This four-year (2014-2018) competition challenged Cal State LA's EcoCAR3 Team to redesign a 2016 Chevrolet Camaro into the ultimate energy-efficient, high performance vehicle while keeping its iconic body design. In particular, the Team designed and built a plug-in hybrid vehicle for police service responding to Governor Brown's call for clean vehicles in California fleets.

Another signature public outreach activity that the EcoCAR team has developed over the years is the Solar Car Workshop held every October. The workshop seeks to inspire and motivate hundreds of students from lower-income communities to pursue Science, Technology, Engineering and Mathematics (STEM) education. The hands-on workshop also increases awareness of advanced transportation and alternative fuels.

Under the guidance of Dr. David Blekhman and support from his colleagues and Cal State LA Administration, the EcoCAR3 Team is leading the way to a clean air transportation future.



Business Leadership in Air Quality

An outstanding effort by a small or large business to advance effective clean air solutions in the South Coast region beyond local, state or federal requirements. Nominated businesses must have a physical presence in California and must demonstrate initiative-driven leadership impacting other businesses, academia or their community.



Business Leadership in Air Quality

Los Angeles World Airports (LAWA)

Clean “Air” Airport

Los Angeles World Airports (LAWA) owns and operates Los Angeles International (LAX) and Van Nuys general aviation (VNY) airports. LAX is the fifth busiest airport in the world and ranks 13th in the world in air cargo tonnage processed, and VNY is one of the busiest general aviation airports in the country.

LAWA’s Strategic Plan specifically lists to “Operate Sustainably” as one of four key objectives. This sustainability objective has led LAWA to implement programs that minimize impacts to air quality and to reduce greenhouse gases (GHG). Success in reducing emissions has earned both airports Airport Carbon Accreditation ratings, which is independently administered by WSP, one of the world’s leading engineering professional services firms, on behalf of Airports Council International-Europe.

LAWA’s air quality programs include: targeted reductions of GHGs to below 1990 levels; expansion of electrical vehicle use and infrastructure; use of airplane biofuel; continuous updating of LAX’s alternative fuel vehicle policy; its ground service equipment emission reduction policy; using alternative fuels in its vehicle fleet; a clean construction program; our employee rideshare program; and, the FlyAway non-stop bus program.

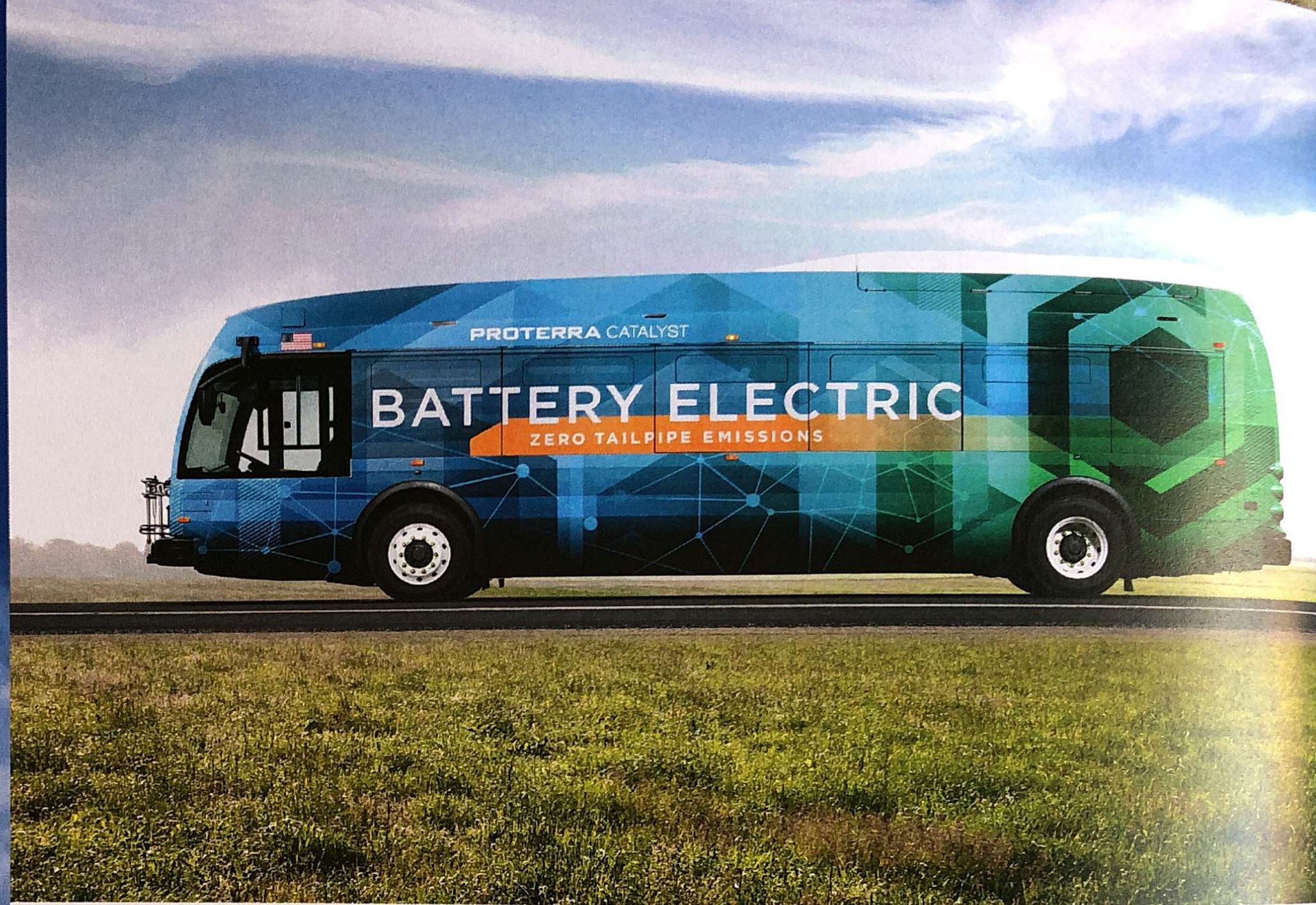
By proactively implementing policies and encouraging innovative solutions, LAWA is determined to meet its goals of improving air quality, reducing greenhouse gas emissions, and building healthy communities, while also contributing more than \$126.6 billion in economic output to the region’s economy.



*Los Angeles
World Airports*

Business Leadership in Air Quality

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Business Leadership in Air Quality

Proterra, Inc.

Driving Clean Air Public Transportation

Proterra is a leader in the design and manufacture of zero-emission, heavy-duty electric vehicles, enabling bus fleet operators and Original Equipment Manufacturers (OEM) partners to significantly reduce operating costs while delivering clean, quiet transportation to local communities across North America. With a 157,000-square foot manufacturing facility located in the City of Industry, and offices in Silicon Valley and South Carolina, Proterra products are designed, engineered and manufactured in America.

In 2017, Proterra Catalyst® set the world record for driving the longest distance ever traveled by an electric vehicle on a single charge—the bus drove 1,101.2 miles with 660 kWh of energy storage capacity. The Catalyst was designed from the ground up exclusively as an electric vehicle (EV), with a durable, life-extending composite body, modular battery storage and state-of-the-art electric drivetrain. The company has the highest density, lowest cost battery pack for heavy-duty vehicles, so it sells its batteries and ancillary services to other heavy-duty OEMs, including manufacturers of school buses, motor coaches, delivery and refuse trucks. This year, Proterra also developed and introduced a new suite of high power DC chargers for heavy-duty electric fleets to scale that comply with the industry's de facto open standards.

Proterra's leadership in zero-emission public transit buses and energy storage is moving our region, state and nation to a cleaner air future.



PROTERRA

Youth Leadership in Air Quality

An outstanding effort by an individual (aged 18 or younger) or an organization who have shown a commitment to cleaning up and preventing air pollution, with emphasis on personal efforts, uniqueness and inspirational value.



Youth Leadership in Air Quality

GRID Alternatives Inland Empire

A Bright Future

GRID Alternatives and its affiliates are a non-profit, tax-exempt service organization making clean, renewable energy technology and job training accessible to frontline communities. The GRID Inland Empire Solar Futures Program teaches opportunity youth (ages 16-24) real-world job skills through work-based learning opportunities in solar technologies, exposing students to clean energy career options.

The program targets K-14 students, with a focus on high school juniors and seniors, and provides a unique five module curriculum combining classroom sessions and local solar build projects. Students build upon their existing science, technology, and math knowledge as well as job-readiness skills, such as public-speaking and teamwork, to learn and apply new information on energy, its relation to the environment, efficiency/conservation, and the basics around clean renewable energy. In addition, GRID also offers a free Solar Futures Toolkit designed for K-8 educators and volunteers who would like to take solar curriculum ideas and activities into their classrooms.

Through GRID's Solar Futures program, students learn how fossil fuels emit harmful by-products of greenhouse gases and particulate matter that contribute to poor air quality. Students are then engaged with this reality by directly participating in the installation of solar panels in their own communities, reducing damaging air emissions and increasing clean energy for populations that often have least access to these technologies. Through these projects, Solar Futures students are reimagining what their classrooms can look like, how they can build their work experience and resume while in school, and directly help in building an inclusive clean-energy future for all.





“The Right to Breathe”

Featuring South Coast AQMD Chairman William A. Burke, Ed.D.

The Right to Breathe video captures air quality issues in Southern California from an emotionally powerful and personal perspective.

“The Right to Breathe” may be viewed at:

<http://www.therighttobreathe.org>

South Coast Air Quality Management District

21865 Copley Drive • Diamond Bar, CA 91765-4178
www.aqmd.gov

30th Annual Clean Air Awards— Technical Advisory Committee

Marc Carrel, President & CEO
Breathe California of Los Angeles

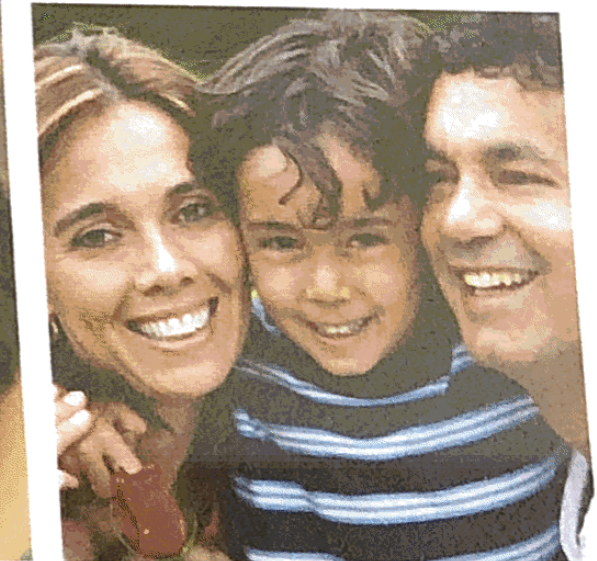
Jo Kay Ghosh, Ph.D., Health Effects Officer,
Planning, Rules Development & Area Sources
South Coast Air Quality Management District

Monique Hernandez, Ph.D., Professor
California State University Los Angeles

Jason Low, Ph.D. Assistant Deputy Executive Officer,
Science and Technology Advancement
South Coast Air Quality Management District

Fabian Wesson, Assistant Deputy Executive Officer,
Legislative, Public Affairs and Media Relations
South Coast Air Quality Management District

Janet Whittick, Director, Policy and Communications
California Council for Environmental and
Economic Balance (CCEEB)



South Coast Air Quality Management District

Cleaning the air that we breathe...

SCAQMD takes pride in annually recognizing the outstanding innovation and leadership of organizations and individuals contributing to the improvement of air quality. However, such recognition does not represent an endorsement by the agency of any product or service.



Starting today pledge to
Do One Thing (at least) to help
clean the air that we all breathe.

Post your clean air efforts on South
Coast AQMD's Facebook or Tweet
about your clean air actions on Twitter

#ILoveCleanAir.

For inspiration watch SCAQMD's

Do One Thing Video at:

www.aqmd.gov/all-videos/do-one-thing

Stay Connected With Us
@SouthCoastAQMD

YOU'RE INVITED!

We are excited to announce that SCAQMD has updated our Mobile Application and it is now ready for you to preview and provide feedback on some of our early concepts and features. With your feedback, we will be able to provide a higher quality and intuitive application that suits YOUR needs.

A ONE-STOP APP FOR

- Alerts
- Events
- Temperature
- AQI
- Fuel Locations
- Weather

AWESOME FEATURES

 **Air Quality For Multiple Cities**
You can now save your favorite cities and view air quality data on each of your favorite locations.

 **Personalized Air Quality Alerts**
Choose your own threshold for air quality alerts.

 **Detailed AQI and Pollutant**
View a more detailed breakdown of the air quality in your area.

 **Interactive Air Quality Map**
See air quality throughout the South Coast Air Basin.





Clean Air Awards

@SouthCoastAQMD



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