



# Air Resources Board



**Matthew Rodriguez**  
Secretary for  
Environmental Protection

**Mary D. Nichols, Chairman**  
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Sacramento, California 95812 • [www.arb.ca.gov](http://www.arb.ca.gov)

**Edmund G. Brown Jr.**  
Governor

TO: All Interested Parties

DATE: May 20, 2013

SUBJECT: PUBLIC WORKSHOP ON IMPROVING MOBILE SOURCE  
PLANNING TOOLS

The California Air Resources Board (ARB) invites you to participate in a public workshop to discuss the development of improved mobile source planning tools for air quality assessment at ARB. At this workshop, staff will present updates that are under development for three tools: the Emission Factor (EMFAC) model, the California Vehicle Activity Database (Cal-VAD) tool for measuring mobile source Vehicle Miles Traveled in California, and the Vision Scenario Modeling tool for analyzing the impact of new vehicle technologies and improved transportation efficiencies on forecasted emissions in California. ARB is developing these tools to lay the technical foundation for air quality planning and development of State Implementation Plans.

The workshop will be held at the following date, time and location:

Sacramento: (will also be webcast)

Date: Wednesday, June 5, 2013  
Time: 10:00 a.m. –1:00 p.m.  
Location: Cal/EPA Headquarters Building  
Byron Sher Auditorium  
1001 I Street  
Sacramento, CA 95814

## Webcast Information

A live video/audio webcast will be available for those unable to attend in person. The webcast can be accessed at: <http://www.calepa.ca.gov/broadcast/>. Information on submitting questions or comments will be provided during the webcast for remote participants. The workshop materials will be posted in advance of the workshop at <http://www.arb.ca.gov/msei/msei.htm>.

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.*

California Environmental Protection Agency

### Workshop Information and Background

The past several decades have seen dramatic improvements in air quality as a result of regulations that reduced emissions from stationary and mobile sources. However, substantial additional emissions reductions will be necessary to meet more stringent ozone air quality standards and California's long-term greenhouse gas emissions reduction goals. Meeting these targets will require a transition to zero and near-zero emissions technologies. ARB is expanding mobile source analysis tools to support air quality planning focused on achieving this transition.

The EMFAC model is the primary tool that ARB uses to assess emissions from cars, trucks, and buses. Originally developed to support low emission vehicle regulations, EMFAC is now being used to support climate change and regional scale air quality planning, development of ARB regulations focused on in-use vehicles as well as new emissions standards, and assessment of project level emissions impacts for transportation planning. In this workshop updates to the EMFAC model focused on providing improved functionalities in these areas will be discussed.

Two new additional tools will be discussed in the workshop: the Cal-VAD and the Vision Scenario Modeling tools. Cal-VAD is a new tool designed to combine on-road vehicle count information from multiple data sources into a new database of roadway specific vehicle miles traveled estimates. This tool is currently under development and will be made publicly available when completed. The Vision Scenario Modeling tool is designed for assessing how vehicle technology penetration and transportation efficiency policies might affect criteria and greenhouse gas emissions in the future. ARB customized the VISION model (originally developed by Argonne National Laboratory) using California-specific inputs for on-road and off-road vehicles, and expanded the model to evaluate criteria pollutants in addition to greenhouse gases.

### Special Accommodations

If you require a special accommodation or need this document in an alternate format (i.e. Braille, large print) or another language, please contact Dr. Chengfeng Wang at (916) 322-1719 or [cwang@arb.ca.gov](mailto:cwang@arb.ca.gov) as soon as possible, but no later than 10 business days before the scheduled workshop. TTY/TDD/Speech to Speech users may dial 711 for the California Relay Service.

If you did not receive this notice directly and would like to receive notices to stay informed of future updates to mobile source emissions inventory tools, please sign up for the "MSEI" listserv at:

[http://www.arb.ca.gov/listserv/listserv\\_ind.php?listname=msei](http://www.arb.ca.gov/listserv/listserv_ind.php?listname=msei) .

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If you have questions regarding the public workshop, please contact Dr. Chengfeng Wang at (916) 322-1719 or [cwang@arb.ca.gov](mailto:cwang@arb.ca.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'Todd Sax', written over a horizontal line.

Todd Sax, D.Env.  
Chief, Mobile Source Analysis Branch  
Planning and Technical Support Division

cc: Chengfeng Wang, Ph.D.  
Manager, On-Road Model Implementation Section  
Planning and Technical Support Division