



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

ADVISORY COUNCIL MEETING

WEDNESDAY
OCTOBER 12, 2011
9:00 A.M.

7TH FLOOR BOARD ROOM
939 ELLIS STREET
SAN FRANCISCO, CA 94109

AGENDA

CALL TO ORDER

Opening Comments
Roll Call

Ken Blonski, Chairperson
Clerk

PUBLIC COMMENT PERIOD

Public Comment on Non-Agenda Items, Pursuant to Government Code Section 54954.3. The public has the opportunity to speak on any agenda item. All agendas for Advisory Council meetings are posted at the District, 939 Ellis Street, San Francisco, at least 72 hours before a meeting. At the beginning of the meeting, an opportunity is also provided for the public to speak on any subject within the Council's purview. Speakers are limited to three minutes each.

CONSENT CALENDAR

1. Approval of Minutes of the September 14, 2011 Advisory Council Meeting.

PRESENTATION: ULTRAFINE PARTICLES

2. Ultrafine Particles: Characterization of Mobile Source Emissions and Related Health Effects

Speakers from the California Air Resources Board and University of California, Irvine will present materials on the characterization of mobile source ultrafine particle emissions and related health effects.

A. Internal combustion engine generated particles: formation, measurement, trends, and knowledge gaps.

Alberto Ayala, PhD, MSE
Chief, Monitoring and Laboratory Division
Air Resources Board
California Environmental Protection Agency

B. Semi-volatile components of fine and ultrafine particles: Do they exacerbate airway allergies, promote development of cardiovascular disease and induce inflammation in the brain?

Michael T. Kleinman, PhD

Professor

Division of Occupational and Environmental Health

University of California, Irvine

PANEL DISCUSSION

3. Ultrafine Particles: Characterization of Mobile Source Emissions and Related Health Effects

The speakers will convene as a panel for a discussion with the Advisory Council and Air District staff on ultrafine particles - characterization of mobile source emissions and health effects associated with semi-volatile fine and ultrafine particles, and the implications for the Air District's regulatory agenda, legislative agenda, and programs.

OTHER BUSINESS

4. Council Member Comments/Other Business

Council Members may make a brief announcement, provide a reference to staff about factual information, or ask questions about subsequent meetings.

5. Time and Place of Next Meeting

Wednesday, November 9, 2011, at 9:00 a.m. at 939 Ellis Street, San Francisco, CA 94109.

6. Adjournment

CONTACT EXECUTIVE OFFICE - 939 ELLIS STREET SF, CA 94109

(415) 749-5130

FAX: (415) 928-8560

BAAQMD homepage:

www.baaqmd.gov

- To submit written comments on an agenda item in advance of the meeting.
- To request, in advance of the meeting, to be placed on the list to testify on an agenda item.
- To request special accommodations for those persons with disabilities notification to the Clerk's Office should be given in a timely manner, so that arrangements can be made accordingly.
- Any writing relating to an open session item on this Agenda that is distributed to all, or a majority of all, members of the body to which this Agenda relates shall be made available at the District's offices at 939 Ellis Street, San Francisco, CA 94109, at the time such writing is made available to all, or a majority of all, members of that body. Such writing(s) may also be posted on the District's website (www.baaqmd.gov) at that time.

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

EXECUTIVE OFFICE:
MONTHLY CALENDAR OF DISTRICT MEETINGS

OCTOBER 2011

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Advisory Council Meeting <i>(Meets 2nd Wednesday each Month)</i>	Wednesday	12	9:00 a.m.	Board Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i> - CANCELLED	Wednesday	19	9:45 a.m.	Board Room
Board of Directors Executive Committee <i>(At the Call of the Chair)</i>	Wednesday	19	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Budget & Finance Committee <i>(At the Call of the Chair)</i>	Wednesday	19	Immediately Following Executive Cme. Meeting	4 th Floor Conf. Room
Board of Directors Executive Committee <i>(At the Call of the Chair)</i> - CANCELLED AND RESCHEDULED TO WEDNESDAY, OCTOBER 19, 2011	Monday	24	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Mobile Source Committee <i>(Meets 4th Thursday each Month)</i>	Thursday	27	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Climate Protection Committee <i>(At the Call of the Chair)</i>	Monday	31	10:00 a.m.	4 th Floor Conf. Room
Board of Directors Public Outreach Committee <i>(At the Call of the Chair)</i>	Wednesday	31	Immediately Following Climate Protection Cme. Meeting	4 th Floor Conf. Room

NOVEMBER 2011

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	2	9:45 a.m.	Board Room
Board of Directors Nominating Committee <i>(At the Call of the Chair)</i>	Wednesday	2	Immediately Following Regular Board Meeting	Room 716
Advisory Council Meeting <i>(Meets 2nd Wednesday each Month)</i>	Wednesday	9	9:00 a.m.	Board Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	16	9:45 a.m.	Board Room

NOVEMBER 2011

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Mobile Source Committee <i>(Meets 4th Thursday each Month)</i> - CANCELLED	Thursday	24	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Mobile Source Committee <i>(Meets 4th Thursday each Month)</i>	Monday	28	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Stationary Source Committee <i>(At the Call of the Chair)</i>	Monday	28	Immediately Following Mobile Source Cme.	4 th Floor Conf. Room

DECEMBER 2011

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	7	9:45 a.m.	Board Room
Advisory Council Meeting <i>(Meets 2nd Wednesday each Month)</i>	Wednesday	14	9:00 a.m.	Board Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	21	9:45 a.m.	Board Room
Board of Directors Mobile Source Committee <i>(Meets 4th Thursday each Month)</i> - CANCELLED	Thursday	22	9:30 a.m.	Board Room

HL – 10/6/11 (3:10 p.m.)

P/Library/Forms/Calendar/Calendar/Moncal

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Blonski and
Members of the Advisory Council

From: Jack P. Broadbent
Executive Officer/APCO

Date: October 5, 2011

Re: Advisory Council's Draft Meeting Minutes of September 14, 2011

RECOMMENDED ACTION:

Approve attached draft minutes of the Regular Advisory Council meeting of September 14, 2011.

DISCUSSION

Attached for your review and approval are the draft minutes of the September 14, 2011 Advisory Council meeting.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Vanessa Johnson
Reviewed by: Jennifer Cooper

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
(415) 749-5000

DRAFT MINUTES

Advisory Council Regular Meeting
9:00 a.m., Wednesday, September 14, 2011

CALL TO ORDER

Opening Comment: Chairperson Blonski called the meeting to order at 9:05 a.m.

ROLL CALL

Present: Chairperson Ken Blonski, M.S., Vice Chairperson Stan Hayes, Secretary Robert Bornstein and Council Members Sam Altshuler, Ph.D., Jenny Bard, Louise Bedsworth, Ph.D., Benjamin Bolles, Harold Brazil, Peter Chamberlin, Jonathan Cherry, Alexandra Desautels, John Holtzclaw, Ph.D., Kraig Kurucz, Liza Lutzker, Jane Martin, Ph.D., Kendall Oku, and Dorothy Vura-Weis, M.D., M.P.H. were in attendance.

Absent: Council Member Jeffery Bramlett, Gary Lucks JD, CPEA, REA, and Jonathan Ruel were absent.

Public Comment Period: There were no public comments.

CONSENT CALENDAR

1. Approval of Minutes of the July 13, 2011 Advisory Council Meeting:

Council Action: Mr. Holtzclaw made a motion to approve the minutes of July 13, 2011, and Mr. Altshuler seconded the motion; carried unanimously without objection.

DISCUSSION

2. Discussion of Revised Draft Report on the Advisory Council's June 8, 2011 Meeting on Ultrafine Particles: Sources and Characteristics

Chair Blonski requested the Council move through the report once again and requested Mr. Altshuler lead the efforts to complete the report.

Mr. Altshuler stated he received feedback from numerous Council members and that he incorporated all requests.

Chair Blonski asked if anyone had additional comments and several members responded. Mr. Altshuler informed the Council members that the glossary of acronyms and abbreviations was new.

Dr. Vura-Weis requested that each abbreviated item be spelled out prior to using the abbreviation. Dr. Vura-Weis also provided additional changes, including correcting the spelling of particules to particles, providing the proper spelling of Oxides of Nitrogen (NO_x), Polycyclic Aromatic Hydrocarbons (PAHs), and Zinc Dialkyl-Dithio-Phosphate (ZDDP).

Mr. Bolles expressed his concern about the emphasis placed on mitigation rather than pollution control and suggested that the Council de-emphasize mitigation and emphasize pollution control.

Gary Kendall responded by stating the main issue is differential exposures and the pollution control side of the equation is moving forward, as there are new standards for trucks and buses and that cars are getting cleaner year after year.

Deputy Air Pollution Control Officer, Jean Roggenkamp, commented on the emerging issues and recommendations section of the report. The Air District implemented a Vehicle Buyback program for many years and scrapped more than 50,000 vehicles, the State began implementing a vehicle scrap program, so the Air District has put its program on hiatus for as long as the statewide program is in place.

After extensive discussion regarding the draft report, numerous edits were incorporated and would be forwarded to Mr. Altshuler, Dr. Bornstein and Mr. Kendall for final review. Mr. Kendall provided the Council with information regarding heating and air conditioning. He also explained that High Efficiency Particulate Air (HEPA) filters, while more efficient at removing smaller particles, increase pressure drop across the filter.

Ms. Bard asked if the discussion is limited to mobile sources Ms. Bard wanted to explore the composition of ultrafine particles (UFP) in woodsmoke.

Mr. Altshuler responded to Ms. Bard, informing her of the information included in the draft report, relative to the previous Council meetings.

Mr. Kendall also responded, stating it is the Air District's goal to obtain speakers in 2012 who would discuss exposure assessment (indoor and outdoor micro-environments). Mr. Kendall continued, stating Council members suggested examining mitigation strategies employed by

local cities (San Francisco and San Jose). These topics may provide an additional opportunity to consider woodsmoke.

Dr. Holtzclaw asked about diesel fueled construction equipment. Ms. Roggenkamp said these engine's emissions are not specific to UFP, but to particulate matter (PM) in general. Ms. Roggenkamp continued, saying that all the lessons learned from this evaluation of UFP -will include mobile and diesel sources. The Air District will continue to consider on-road sources, off-road sources, woodsmoke and industrial sources.

Dr. Martin asked about sensitive receptors in recommendation #4 and asked if it would be useful to the Board of Directors to specifically call for focus on the Community Air Risk Evaluation (CARE) communities and if this would help in terms of what the Council is trying to accomplish. Ms. Roggenkamp stated the Board of Directors is aware of the CARE program and that they are often impacted by diesel emissions, but that other areas can also be impacted by UFP.

Further edits to the draft report, were incorporated after discussion by the Council.

Council Action: Dr. Holtzclaw made a motion approve the revised draft report on the June 8, 2011 Advisory Council meeting on Ultrafine Particles: Sources and Characteristics, as amended; Dr. Bedsworth seconded the motion; carried unanimously without objection.

OTHER BUSINESS

3. Council Member Comments / Other Business

Chair Blonski suggested a round-robin to ensure each member had an opportunity to comment.

Ms. Desautels stated she has received several requests from community groups for the Air District's analysis of the drawbacks associated with infill and transit oriented development, and she requested this matter be discussed at a future meeting. Ms. Roggenkamp stated that this is an on-going issue and referred Ms. Desautels to relevant Air District staff.

Dr. Vura-Weiss suggested that the list of mitigation strategies be easily accessible to the public on the Air District website.

Mr. Kurucz announced the Golden West Section of the Air & Waste Management Association (A&WMA) would be holding a meeting regarding CEQA with excellent speakers on September 21, 2011.

Dr. Bornstein asked about the status of Mr. Altshuler's presentation to the Board of the Directors. Mr. Kendall informed the Council that all presentations presented to the Board are scheduled as time permits. In addition, there is a possibility that both reports may be presented at the same meeting.

Mr. Hayes informed the Council that he is a member of a taskforce developing policy to increase public outreach. He will continue to update the Council on any developments relevant to Council activities.

Mr. Brazil thanked Chair Blonski for his work with the Council and commented that the Council is progressing and congratulated the Council on its achievements.

Mr. Oku asked how the work on ultrafine would dovetail into a larger effort to get regulation for ultrafine.

Ms. Bard expressed her appreciation for the Air District News Clips and noted a National Oceanic Atmospheric Administration (NOAA) report on the measurement of ship emissions where cleaner, lower sulfur-containing fuels provide emissions reductions of up to 90%. In addition, Ms. Bard requested that the City of Davis – Yolo Clean Air be considered as a guest speaker for future meetings. Yolo Clean Air advocates for a wood burning regulation that bans wood burning on days when wind speed is less than 5 miles an hour.

Mr. Kendall stated that the workgroup of authors are arranged for the October 12, 2011 meeting. Mr. Kendall continued saying the Council's work products are the reports and is essential that members participate on preparing the reports.

In addition, Mr. Kendall stated the Council should continue to look at UFP next year, as it is a very complicated topic with many facets. Mr. Kendall also stated it is not as important to have an educational meeting in 2012, although they have been useful. It would mean the first meeting with speakers would be in February, with discussion meetings in March and April, the second speaker meeting in May with discussion meetings in June and July, and the third speaker meeting in September with discussion meetings in October and November.

Mr. Eric Stevenson, Division Director, Technical Services, provided the Council with an update on speakers for October 12, 2011 meeting. Mr. Stevenson informed the Council that arrangements have been made with Dr. Alberto Ayala Chief, Monitoring and Laboratory Division at the California Air Resources Board and, Dr. Michael T. Kleinman, a professor at the University of California, Irvine. Dr. Ayala is a recognized expert in engine emissions and ultrafine particles. Dr. Kleinman is an expert in traffic related health affects around major roadways.

Ms. Bard explained that several health organizations have developed health and equity metrics investigating reductions in premature mortality due to PM_{2.5} exposures, in addition to asthma incidents exacerbated by traffic pollution, using NO₂ as a proxy.

Dr. Bornstein said the Council has evolved nicely, and thanked Mr. Altshuler for his important contributions, authoring the last two reports and summarizing the presentations well.

Chair Blonski thanked everyone for their time.

4. **Next meeting:** The next meeting of the Advisory Council will be held on Wednesday, October 12, 2011 at 9:00 a.m. at 939 Ellis Streets, San Francisco, CA 94109
5. **Adjournment:** Chair Blonski adjourned the meeting at 1:00 p.m.

Vanessa Johnson
Executive Secretary II