



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

ADVISORY COUNCIL RETREAT & REGULAR MEETING

WEDNESDAY
JANUARY 14, 2009
10:00 A.M.

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

AGENDA

CALL TO ORDER

Opening Comments

Harold Brazil, Chairperson

Roll Call

Clerk

Introduction of New Advisory Council Members

Harold Brazil, Chairperson

Oath of Office

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 and Committee 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 or Committee's purview. Speakers are limited to five minutes each.

CONSENT CALENDAR

1. Approval of minutes of the following meetings: August 11, 2008 Air Quality Planning Committee, October 8, 2008 Public Health Committee, October 22, 2008 Technical Committee, November 12, 2008 Executive Committee, and November 12, 2008 Regular Meeting.

DISCUSSION

2. Selection of Advisory Council Secretary

Harold Brazil, Chair

The Council will consider approval of Advisory Council Secretary for 2009.

RETREAT FORMAT

3. Discussion of the structure of the 2009 Advisory Council Meetings, including format, topics and dates.

The Council will discuss the dates, topics and format for the Advisory Council meeting given the revised Administrative code section regarding the Advisory Council role.

AIR DISTRICT OVERVIEW

4. Report of the Executive Officer/APCO

Jack P. Broadbent

Mr. Broadbent will provide an update on pending and planned Air District activities, policies and initiatives.

OTHER BUSINESS

5. Council Member Comments/Other Business

Council or staff members on their own initiative, or in response to questions posed by the public, may: ask a question for clarification, make a brief announcement or report on their own activities, provide a reference to staff about factual information, request staff to report back at a subsequent meeting concerning any matter or take action to direct staff to place a matter of business on a future agenda.

6. Time and Place of Next Meeting

10:00 a.m., Wednesday, February 11, 2009, 939 Ellis Street, San Francisco, CA 94109.

7. Adjournment

CONTACT EXECUTIVE OFFICE - 939 ELLIS STREET SF, CA 94109

(415) 749-5016
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

JANUARY 2009

<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
Board of Directors Climate Protection Committee <i>(Meets 3rd Thursday every other Month)</i>	Thursday	8	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Legislative Committee <i>(Meets 4th Monday of the Month)</i>	Thursday	8	Following Climate Protection Committee Meeting	4 th Floor Conf. Room
Board of Directors Stationary Source Committee <i>(Meets 3rd Monday quarterly)</i>	Monday	12	9:30 a.m.	Board Room
Advisory Council Retreat	Wednesday	14	10:00 a.m.	Board Room
Joint Policy Committee	Friday	16	10:00 a.m.	MTC Auditorium 101 8 th Street Oakland, CA 94607
Board of Directors Regular Meeting/Retreat <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	21	9:45 a.m.	Claremont Hotel & Spa 41 Tunnel Road Berkeley, CA 94705
Board of Directors Ad Hoc Cme. on Port Emissions – <i>(At the Call of the Chair)</i>	Thursday	22	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Mobile Source Committee – <i>(Meets 4th Thursday of each Month)</i>	Friday	23	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Budget & Finance Committee <i>(Meets 4th Wednesday of each month)</i>	Wednesday	28	9:30 a.m.	4 th Floor Conf. Room

FEBRUARY 2009

<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	4	9:45 a.m.	Board Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	18	9:45 a.m.	Board Room

FEBRUARY 2009

<u>TYPE OF MEETING</u>	<u>DAY</u>	<u>DATE</u>	<u>TIME</u>	<u>ROOM</u>
Board of Directors Legislative Committee <i>(Meets 4th Monday of the Month)</i>	Monday	23	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Budget & Finance Committee <i>(Meets 4th Wednesday of each month)</i>	Wednesday	25	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Mobile Source Committee – <i>(Meets 4th Thursday of each Month)</i>	Thursday	26	9:30 a.m.	4 th Floor Conf. Room

MARCH 2009

<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	4	9:45 a.m.	Board Room
Board of Directors Regular Meeting <i>(Meets 1st & 3rd Wednesday of each Month)</i>	Wednesday	18	9:45 a.m.	Board Room
Joint Policy Committee	Friday	20	10:00 a.m.	MTC Auditorium 101 8 th Street Oakland, CA 94607
Board of Directors Legislative Committee <i>(Meets 4th Monday of the Month)</i>	Monday	23	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Budget & Finance Committee <i>(Meets 4th Wednesday of each month)</i>	Wednesday	25	9:30 a.m.	4 th Floor Conf. Room
Board of Directors Mobile Source Committee – <i>(Meets 4th Thursday of each Month)</i>	Thursday	26	9:30 a.m.	4 th Floor Conf. Room

HL - 1/7/09 (9:20 a.m.)
P/Library/Forms/Calendar/Calendar/Moncal

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, California 94109

DRAFT MINUTES

Air Quality Planning Committee
9:30 a.m., Monday, August 11, 2008

- 1. Call to Order:** Chairperson Drennen called the meeting to order at 9:33 a.m.

Roll Call: Ken Blonski, Irvin Dawid, John Holtzclaw, Ph.D., Robert Huang, Ph.D., Kendal Oku and Emily Drennen, Chairperson.

Absent: Harold Brazil, Irvin Dawid, William Hanna, Kraig Kurucz

- 2. Public Comment Period.** There were no public comments.

- 3. Approval of Minutes of June 16, 2008:** Chair Drennen deferred the approval of the minutes to the end of the meeting or until there was a quorum established of the Committee.

- 4. Presentation by ClimatePlan on the Air Resources Board AB 32 Climate Change Draft Scoping Plan**

Chair Drennen reported that ClimatePlan representatives could not be present to provide a presentation, and she acknowledged receipt of materials which had been forwarded to her for distribution to the Committee.

- 5. Overview of Air Resources Board AB 32 Climate Change Draft Scoping Plan and Discussion and Consideration of Policy Recommendation Regarding AB 32 Climate Change Draft Scoping Plan**

Environmental Planner Sigalle Michael gave a PowerPoint presentation and overview of the Draft Scoping Plan, noting that the draft plan outlines approaches for implementing AB 32. Key elements of the Plan include a cap and trade program to begin in 2012, expanding energy efficiency, increasing a renewable portfolio standard to 33%, and implementing new and existing regulations for vehicle standards and low carbon fuel standard. Transportation measures include: Pavley I & II, low carbon fuel standard, vehicle efficiency, goods movement, high speed rail, local government actions and regional targets, and other sectors such as high GWP gases, forests, recycling and agriculture. Additional measures include vehicle feebates, congestion pricing, pay-as-you-drive insurance, industrial source measures and indirect source rules for new development.

Ms. Michael discussed potential Air District roles in enforcement, tracking relationships between GHG reductions and toxic and criteria pollutants, permitting of new equipment and

technologies, collaborating on outreach and education, assisting local government with Climate Action Plans, assisting in developing and tracking regional GHG reduction targets, and providing CEQA guidance.

She presented the scoping plan schedule as follows:

- June 20, 2008 – Draft Scoping Plan released for public review;
- July 22, 2008 – Technical Appendices released for public review;
- October 2008 – Proposed Scoping Plan to be released;
- November 2008 – ARB Board to consider adoption of Scoping Plan;
- 2009-2012 – ARB to develop and adopt rules for plan implementation.

Chair Drennen reported that a number of local and regional agencies are preparing response letters to ARB on the Draft Scoping Plan and she confirmed with Deputy APCO Jean Roggenkamp that the Air District is preparing a response.

Dr. Huang questioned and confirmed with Ms. Roggenkamp that the Air District has been integrating greenhouse gas reduction in its existing work and programs.

Dr. Holtzclaw stated that the ARB seems to be committed to land use and transportation; however, he believed that the draft plan did not go for enough. Ms. Roggenkamp noted that transportation and land use related issues were new for the ARB.

Mr. Blonski questioned population assumptions in the Draft Plan and he confirmed with Ms. Roggenkamp that population growth is taken into consideration.

Mr. Blonski pondered how minimizing damage from wildfire through vegetation management would play out.

Dr. Holtzclaw questioned whether or not there have been studies of the contribution to global warming of wildfires compared to other contributions, and Mr. Blonski said there are a number of economists looking at it.

Chair Drennen discussed the need to include and focus on land use and transportation strategies in the Committee's recommendation, noted ClimatePlan's comments relating to reduction targets being too low to spur meaningful change, and she said omitted from the plan were public transportation and congestion relief programs.

Mr. Blonski said bus and train ridership was at an all-time high and he believed this would be an excellent vehicle to weigh in on transit ridership.

Dr. Huang confirmed with Ms. Roggenkamp that regional agency staff was collaborating together and with cities and counties. Mr. Hilken pointed out the collaborative efforts of the Joint Policy Committee, stating Air District staff and regional agency representatives meet and focus on climate change.

Dr. Holtzclaw suggested considering a new revenue source that rewards cities and counties that do the best job, such as an emissions tax that goes back to the cities on their per capita

reductions. Mr. Blonski voiced concern in a per capita allocation, as Contra Costa County had significantly less production of greenhouse gases than Sonoma or Marin Counties due to industrial lands and the existence of refineries. Chair Drennen suggested those purchasing high-emitting vehicles could be taxed, and proceeds from the tax could go back to users of non-polluting or low emission vehicles.

Chair Drennen suggested the Committee work on formulating a list of recommended principles to be passed on as a recommendation to the Advisory Council and thereafter, to the Board of Directors, in response to the Draft AB 32 Scoping Plan. The Committee discussed bullet points from documents received from ClimatePlan, agreed with the need for transportation and land use issues to be included in the recommended set of principles, and reviewed presentations made to the Committee over the last year.

Chair Drennen and the Committee agreed to the following eight principles to be forwarded as a recommendation to the Advisory Council, and thereafter, to the Board of Directors in their response to comments on the Draft AB 32 Scoping Plan:

1. Climate protection actions can and should reinforce current efforts to reduce criteria and toxic air contaminants. Other benefits include lower heating and cooling costs, reduced water use and improvements in energy efficiency and public health;
2. Given that the transportation sector contributes approximately 40% of all global warming emissions in California, the Scoping Plan needs to include more aggressive emission reduction targets for land use and transportation. The plan should encourage efficient, non-auto dependent growth and compact development close to resources, jobs and transit;
3. By taking a strong leadership role now, California will realize compounded and co-occurring benefits from future land use and transportation planning undertaken now. Actions not taken will cost all Californians more in the future;
4. Given that bus and train ridership is at an all-time high in California and that transit agencies are chronically underfunded, the Scoping Plan needs to address crucial transit investments and promote transportation efficiency to give Californians better transportation options, including biking and walking;
5. The California Air Resources Board (CARB) should set firm targets for regions but authorize regions and localities to choose from a flexible set of policy tools to achieve the targets. Targets need to be set using a transparent, justifiable methodology, and once set progress should be measured in the same process and reviewed in shorter timeframes in order for it to be consistent over the years;
6. The Air District supports the adoption of a series of key policy tools currently under consideration, including the Indirect Source Rule, Pay-As-You Drive Insurance, Congestion Pricing and incentive programs. Other innovative measures could include alternative parking management practices (e.g. the "SFPark Program), speed reduction measures and new carbon fees to assist and reward jurisdictions successful in meeting planned targets;
7. The plan should make it a top priority to invest in and sustain public transportation and programs to improve transportation efficiency and reduce congestion. In many cases, the state, regions, and local agencies can simply redirect funds they are already going to

spend. For instance, the statewide plan should encourage metropolitan planning organizations to re-examine committed funds in their long-term transportation plans;

8. Cities, counties and regions should be given incentives to develop in less fire-prone areas, manage vegetation and conserve forests and agriculture in order to sequester carbon and improve air quality.

Action: Mr. Blonski made a motion to approve and recommend that the eight principles be forwarded for consideration to the Advisory Council, and thereafter onto the Board of Directors, and advocate for their inclusion in the CARB Scoping Plan; Dr. Holtzclaw seconded the motion. The motion was approved unanimously.

3. Approval of Minutes of June 16, 2008: (Continued from earlier in the meeting)

Committee Action: Dr. Holtzclaw moved to approve the minutes of June 16, 2008; Mr. Oku seconded the motion; carried unanimously.

6. Discussion and Consideration of Agenda for Next Meeting

Chair Drennen asked members to submit questions and comments on congestion pricing for the next meeting on October 2, 2008.

Dr. Huang requested a professor from UC Davis who is an expert on Environmental Justice speak at the next Committee meeting, and he agreed to send the Chair the professor's contact information.

Dr. Holtzclaw requested the Clerk poll for the next meeting to be held October 16, 2008, stating he would be on vacation until October 10, 2008.

7. **Time and Place of Next Meeting:** 9:30 a.m., Thursday, October 16, 2008 – 939 Ellis Street, San Francisco, CA 94109.

8. **Adjournment:** The Committee adjourned at 12:32 p.m.

/s/ Lisa Harper
Clerk of the Boards

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109

DRAFT MINUTES

Advisory Council Public Health Committee
1:30 p.m., Wednesday, October 8, 2008

1. Call to Order: Chairperson Zamora called the meeting to order at 1:37 p.m.

Roll Call: Brian Zamora, Chairperson; Jeffrey Bramlett, Steven Kmucha, Karen Licavoli-Farnkopf, MPH, Linda Weiner

Absent: Cassandra Adams

Others Present: Louise Wells Bedsworth, Ph.D. and Virginia Smyly

2. Public Comment Period: There were none.

3. Approval of Minutes of June 9, 2008: Ms. Licavoli-Farnkopf moved approval of the minutes, seconded by Ms. Weiner, carried unanimously.

4. Public Health Impacts of Climate Change: *The Committee received a presentation by Advisory Council Chairperson Louise Wells Bedsworth, Ph.D. on the Public Health Impacts of Climate Change.*

Dr. Bedsworth gave a PowerPoint presentation on the public health impacts of climate change, responding to those impacts, climate change and local health officers, and a summary of findings on a survey conducted of public health officers.

She reported that global impacts of climate change are projected to increase in global average temperature 2.5° F to 10.4° F degrees by 2100, a rise in sea level, an increase in frequency and severity of storms, and alterations in regional flora and fauna. Models of climate change in California estimate there will be a temperature increase of 3.6° F to 10.8° F by 2100, as well as sea level rise, increase in frequency and severity of extreme events, reduction in snowpack levels which affect water basins, reduction in agricultural yields and quality which affects high value crops, and shifts in natural flora and fauna. She said there is no clear trend for estimates of future precipitation amounts, but there is a shift from snow to rain.

She presented scenarios over a number of different models, stating it is not known what path emissions will take and how sensitive they will be to the climate once in the atmosphere.

Dr. Bedsworth discussed the sensitivity of each model and how they differ. In looking at the coming century, some amount of climate change that will occur. Dr. Bedsworth noted that the

model results begin to diverge in the middle of the century. She confirmed the scenario presented was representative of business as usual.

Dr. Bedsworth then discussed and presented results of the PPIC survey of public health officers which was conducted in July 2008. The survey included the following questions and results:

“How serious a threat is global warming to California’s economy and way of life?” -- 27% believed the threat was somewhat serious; 52% believed the threat was very serious.

“When will the effects of global warming start to happen?” -- 64% believed it was already happening; 5% believed it is within a few years; 8% within my lifetime.

Dr. Bedsworth noted public health impacts can be broken into direct impacts: heat-related morbidity and mortality; and indirect impacts: air quality, vector-borne illness, wildfires, climate refugees, and strain on healthcare services.

She presented a chart on climate change and extreme heat projected in heat wave days to the end of the century. Larger changes are projected to occur where currently there are not a lot of heat wave days. In addition to extreme heat deaths, she noted there is data showing an increase in mortality with the increase in temperatures over time. Key vulnerabilities are associated with age, social isolation, pre-existing conditions, those mentally disabled, those who are substance abusers, some who will do daring things during heat events, and young children.

Dr. Bedsworth said the study focuses on ozone pollution. There is a consistent trend with ozone and climate change because of increases in temperature, biogenic emissions, changing with mixing depths within the atmosphere, boundary changes, and energy demand changes. This trend results in the “Climate Penalty”, which means that additional emission reductions will be needed to meet the same target and there will be additional health costs as a result.

Dr. Bedsworth presented results from a modeling study of Dr. Rob Harley which looked at the Bay Area, Sacramento and Fresno. The study looked toward 2050 and how climate change would affect air quality. A business as usual future revealed a 10% to 15% reduction in ozone levels by 2050. In looking at climate change/current emissions without reductions, an increase in pollution of 3% to 10% is projected in ozone levels. Climate change with future emissions reductions results in a reduction in ozone from zero to 9% reduction. The study also found the Bay Area to be the most sensitive.

Dr. Bedsworth then discussed other health impacts:

- Vector-Borne Illness
- Wildfires
- Displacement of Affected Populations
- Strain on Health Care Services

Dr. Bedsworth further reported that California can reduce the public health impacts of climate change through emission reductions and adaptation through programs designed to respond to and reduce vulnerability in the face of climate change. She said both are critical elements of climate policy. Regarding adaptation and public health, the front line actors are the local health agencies

and air quality planning agencies. Current programs exist to respond to public health risks, such as heat emergency plans, disease tracking programs and vector control, and air quality improvement programs, all of which provide a good foundation for adaptation.

Dr. Bedsworth then discussed heat emergency plans, public education programs addressing energy and water reduction, and technical management tools to track disease and plan for drought, noting the PPIC conducted a survey of 61 local health officers on August 29, 2007. Responses came from 34 jurisdictions covering 32 counties and 2 cities, representing just over $\frac{3}{4}$ of California's population. The survey was completed October 26, 2007 and she presented the following survey questions and results:

"Is there a threat of global climate change?" 55% see it as a very serious health risk, 38% see it as somewhat serious, and there were minimal results for responses of "not at all or not too serious".

"What is the largest threat from climate change?" 35% believe it is from extreme heat; 28% from agriculture; 25% from water shortage; 22% from flooding; 18% from wildfires; 9% from human health; 5% from air quality and water quality.

"Do you believe some programs are already in place that can aid in adaptation to climate change?" While 100% responded there are programs for disease tracking, 88% had heat emergency plans and 12% did not. Very few had transportation to cooling centers, which is a factor that has been found to reduce mortality in extreme heat events.

"Do you feel that your agency has adequate information to respond to public health emergencies in general and to climate-related health emergencies?" 65% say yes they do, in general; 25% said no, they do not. 29% said they do and 68% said they do not when it is a climate-related health risk.

All surveyed believed it would be very helpful to have information on regional risk assessment, scientific information, clearinghouse, statewide health tracking database, guidance from the Department of Public Health, educational programs for agency staff, vulnerability assessment, and guidance from EOS.

"Do you feel that your agency has adequate resources to respond to climate change?" 70% said no and 20% said yes. Resources that would be helpful or very helpful included:

Health impact assessment:	97%
Dedicated funding:	93%
Staff with expertise in climate science:	79%
Vulnerability assessments:	65%
State coordination:	42%
Local coordination:	25%

In summary, Dr. Bedsworth said climate change will have direct and indirect impacts on public health; emissions mitigation will affect the level of impacts experienced; adaptation will be needed to respond to the public health risks; local health agencies feel that they lack the resources and information to respond to the public health risks posed by climate change.

Ms. Weiner reported that CARB is developing a partnership with public health departments. They are revising the health impacts report and the Lung Association is also working with the health departments on land use policies within AB 32, looking at how smart growth can impact obesity as well as other health related issues. Dr. Bedsworth noted that the larger survey report has come out and looks at adaptation needs, which has more specific recommendations. However, she said the Department of Public Health is not a member of the Climate Action Team which she believes is an important step that needs to be taken.

Chair Zamora questioned and confirmed with Dr. Bedsworth that work was being done across the country; Environmental Defense coordinated efforts with George Mason University and the National Association of Public Health Officials and surveyed a represented sample of health officials around the country with similar questions and results.

Chair Zamora questioned if Dr. Bedsworth could parse out opinions where communities are already hot versus temperate, and she noted there were only 34 communities, too few to break down. However, one interesting result was revealed between attainment and non-attainment areas.

Dr. Bedsworth then discussed a study with Ms. Weiner which assessed vulnerability assessments and extreme heat, and Chair Zamora suggested that further education and outreach was needed to promote cooling centers, especially for vulnerable populations.

Ms. Smyly briefly discussed the Katrina event and transportation and early warning systems not put into place. She suggested a registry be developed as opposed to communication through telephonic alert, as seniors sometimes do not have telephones, pagers, or cell phones. Dr. Bedsworth then discussed San Diego County's 9-1-1 system for vulnerable populations which could be implemented and activated during extreme emergencies.

Committee members thanked Dr. Bedsworth for her informative presentation.

5. Committee Member Comments/Other Business - None

6. Time and place of next meeting: 1:30 p.m., Wednesday, December 10, 2008, 939 Ellis Street, San Francisco, CA 94109.

7. Adjournment: The meeting adjourned at 2:23 p.m.

/s/Lisa Harper
Clerk of the Board

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, California 94109

DRAFT MINUTES

Advisory Council Technical Committee
9:30 a.m., Wednesday, October 22, 2008

- 1. Call to Order – Roll Call.** Chairperson, Kraig Kurucz called the meeting to order at 1:00 p.m.

Present: Sam Altshuler, P.E., Louise Bedsworth, Ph.D., Robert Bornstein, Ph.D., Fred Glueck, John Holtzclaw, Ph.D., Kraig Kurucz, Chairperson.

Absent: None

- 2. Public Comment Period.** There were no public comments.
- 3. Approval of Minutes of August 4, 2008:** Mr. Glueck made a motion to approve the minutes of August 4, 2008; seconded by Mr. Altshuler; unanimously approved.
- 4. Discussion of Presentations Made to the Advisory Council:** *The Committee discussed presentations made throughout the year.*

Chair Kurucz asked members if they had further comments on presentations made throughout the year. He suggested adding S.T. Rao's presentation and bringing it in by reference and working it into a recommendation. He referred to Slide number 7; "Managing air quality requires modeling tools that connect among various scales". He believes this goes right to the heart of what the Technical Committee is recommending, in terms of tying together various impacts at the different scales.

He said Slide 8 is the Air Quality Research Framework which shows where models fit into the scheme of developing recommendations. This is a long process and it does not necessarily lead to a new regulation as an output, but it sets up the scientific framework to add new data, run additional models, and use the latest thinking to develop a recommendation.

Dr. Bornstein said it also shows the interaction between the modules of this single model which used to be considered models unto themselves and were run independently from the other models.

Chair Kurucz wondered if a new factor could be included in a multi-scale model. Dr. Bornstein said CMAQ is designed to be similar to a file cabinet where if a new meteorological model comes along, one would pull out that shelf and put in the new one. Therefore, modules can be updated, and in addition, the new trend is to link all of these scientific models with impact

models. So, it may not be a module dealing with pollution of streams now, but if such a module comes, CMAQ is constructed for it to be plugged in and integrated. He believed EPA staff could add on any adaptation that is necessary.

Director of Technical Services, Gary Kendall, added that he believes Dr. Bornstein has explained it well; the complex models that employ chemistry generally have deposition built into them. It is a matter of taking the deposition calculations and feeding them into a different piece of software that would look at how that might impact the bay, streams and other waterways.

Dr. Bornstein said he did not believe the Committee should be recommending any specific model, but recommending research towards these integrated one atmospheric models. Staff could decide which models out there are the best, given their regulatory framework.

5. Discussion and Consideration of Proposed Recommendation Resolution: *The Committee discussed and considered a proposed recommendation resolution to the full Council.*

Mr. Glueck suggested that the resolution include how the District can encourage participation from the various stakeholder entities. He believed part of that outreach effort could be to become more proactive as a resource of information, assistance and funding to those stakeholders who need to be in compliance with AB 32 regulations. He suggested the formation of an Ad Hoc Committee to identify alternatives in order to reach out to get more stakeholders.

Chair Kurucz said procedurally, Mr. Glueck's suggestion would be in the form of a motion to add a couple of "Whereas" or "Therefore" paragraphs to the draft language under discussion.

Dr. Bornstein suggested changing the order of the "Whereas" paragraphs and making other minor changes. He confirmed with Mr. Altshuler that he added three bullet points to the end of the recommended resolution wording.

Committee Action: Dr. Bornstein made a motion to add S.T. Rao's presentation to the recommendation, to accept the revised recommendation prepared by himself and Mr. Altshuler, and work from this document to discuss further revisions; Dr. Holtzclaw seconded the motion; unanimously approved.

The Technical Committee discussed each paragraph of the revised recommendation and proposed the following changes be made for the final version:

1st WHEREAS: WHEREAS, the problems and solutions of climate change and regional pollution are inter-related and can potentially be in conflict;

4th WHEREAS: WHEREAS, land use planning (e.g., urbanization and irrigation) impact local climate and energy policies;

5th WHEREAS: WHEREAS, the implications of air pollution mitigation and climate protection impact energy policy, ecosystems, water resources and public health;

9th *WHEREAS*: WHEREAS, the Bay Area has an unique concentration of analytical capabilities, experts, and innovators; and

Revised: THEREFORE, BE IT RESOLVED THAT, the Advisory Council recommends that the Air District use multi pollutant, multi-scale air quality models and include climate change issues in air quality management. These models should include the following capabilities:

- A validation process against past observations for ozone, PM, toxics, and greenhouse gases) scales from regional to urban to street level.
- Downscaled IPCC global climate data for simulations of past and future regional and local climate change.
- Models that link meteorology, ocean, (i.e., coastal and bay) air quality, climate change impacts (e.g. energy, ecosystems, water resources and health).

Committee Action: Mr. Glueck made a motion to accept the changes and adopt the revised resolution wording; Dr. Holtzclaw seconded the motion; unanimously approved.

Mr. Altshuler made a motion to consider and add a final paragraph to the recommendation; Mr. Glueck seconded the motion, as follows:

THEREFORE, BE IT FURTHER RESOLVED, that the Air District continue its interactions with the local multi-disciplinary experts to facilitate its transition to an integrated planning framework.

The Committee recommended that District staff explore the idea of convening a group from the Advisory Council to best implement and facilitate recommendations, suggested that Committee meetings be limited to 10 per year, and 4 symposiums a year to convene and bring together local experts. They discussed and recommended that the following final paragraph be added:

THEREFORE, BE IT FURTHER RESOLVED that the Air District Continue Its Interactions With The Local Multi-Disciplinary Experts To Facilitate Its Transition To An Integrated Planning Framework.

Mr. Glueck said since the Committee recognizes that the District has the staff, resources and outreach capabilities, he suggested that the Advisory Council advocate that staff enhance its outreach efforts to obtain voluntary compliance by stakeholders through its efforts of education, information and advice to the stakeholders. Mr. Kendall reiterated the outreach work already being done by the District through its Carl Moyer Program. He said the authority to regulate greenhouse gases lies with the State and they are in the process of specifying reduction targets.

Committee Action: Mr. Glueck made a motion to accept the proposed changes to the resolution's wording and authorized the Chair to review changes made once drafted and make modifications as needed; Dr. Holtzclaw seconded the motion; unanimously approved.

6. Committee Member Comments/Other Business: Mr. Glueck congratulated the Technical Committee on their work over the last year.

7. **Time and Place of Next Meeting:** 9:30 a.m., Monday, December 1, 2008, 939 Ellis Street, San Francisco, CA 94109.
8. **Adjournment.** 3:12 p.m.

/s/ Lisa Harper
Clerk of the Boards

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

DRAFT MINUTES

Advisory Council Executive Committee
10:00 a.m., Wednesday, November 12, 2008

- 1. Call to Order – Roll Call:** Chairperson Louise Bedsworth, Ph.D., called the meeting to order at 10:00 a.m.

Present: Louise Bedsworth, Ph.D., Chairperson; Harold Brazil, Vice Chairperson; Jeffery Bramlett, Secretary; Emily Drennen and Kraig Kurucz

Absent: Brian Zamora

Also Present: Fred Glueck, Ken Blonski, Sam Altshuler, Karen Licavoli-Farnkopf

- 2. Public Comment Period:** There was none.

- 3. Approval of Minutes of September 10, 2008:**

Committee Action: Mr. Kurucz made a motion to approve the Minutes of September 10, 2008; seconded by Vice Chairperson Bramlett; carried unanimously without opposition.

- 4. Standing Committee Chair Reports:**

A) Public Health Committee Meeting of October 8, 2008 (Zamora, Acting Chair)

Chairperson Bedsworth noted Mr. Zamora's absence and reported she had given a presentation on the public health impacts of climate change.

B) Technical Committee Meeting of October 22, 2008 (Chair Kurucz)

Mr. Kurucz gave the Technical Committee report, stating the Committee had discussed its recommendation and asked that it be brought forward for review by the Advisory Council. The recommendation is for the District to consider a resolution to address climate change, multi-scale and multi-pollutant modeling and regional pollution. Further, that the District secure a model that can handle multi-pollutants at different scales from local air toxics as well as traditional regional scales and including CO₂, so that the impacts of climate change could be an input to the model.

He also reported that the Committee completed its agenda, canceled its December meeting, and will be scheduling an informal luncheon.

5. Consideration and Discussion of Recommendation for 2009 Slate of Officers

The Committee discussed and recommended to the full Advisory Council a Slate of Officers for 2009.

Committee Action: Mr. Glueck made a motion to approve the 2009 Slate of Officers as follows: Chair Harold Brazil and Vice Chairperson Jeffrey Bramlett, and for the Advisory Council to consider a nomination for the position of Secretary at the January retreat; Mr. Bramlett seconded the motion; carried unanimously without objection.

6. Chairperson's Report

Chairperson Bedsworth reported that on November 3, 2008, the Executive Officer/APCO met with Advisory Council Officers to further consider the role of the Advisory Council, which is proposed as follows:

The Advisory Council will have its January retreat and then meet 8 times per year; conducting 4 symposia to receive presentations from leading experts on defined topic areas and 1 meeting following each symposium (a total of 4 meetings) to summarize materials presented at the symposium. The Council will assign lead member(s) to prepare the reports from each symposium; members will be assigned based on their familiarity with topic area(s) covered. The Council chair will make a presentation to the Board of Directors after each summary meeting. Staff will develop a document template for the reports.

Each meeting report will include:

- 1) Summary of symposium;
- 2) Key points;
- 3) Emerging issues; and
- 4) Future information needs.

Outline of Symposia/Meetings:

January 14, 2009 – Advisory Council Retreat
February 2009 – 1st Symposium
March 2009 - Discussion of Symposium
April 2009 – 2nd Symposium
May 2009 – Discussion of Symposium
July 2009 – 3rd Symposium
September 2009 – Discussion of Symposium
October 2009 – 4th Symposium
November 2009 – Discussion of Symposium

There will be no meetings held in June, August, and December. The Officers of the Council will meet on an as needed basis to discuss scheduling and coordination issues.

Gary Kendall, Technical Services Division Director will be the liaison to the Council.

Committee Members discussed the proposed schedule, suggested an evaluation component be incorporated into the process, and were presented with an alternate proposal by Ms. Drennen.

7. Committee Member Comment/Other Business:

8. Time and Place of Next Meeting: 9:00 a.m., Wednesday, January 14, 2009, 939 Ellis Street, San Francisco, CA 94109.

9. Adjournment: The Committee adjourned to the Regular Advisory Council meeting at 10:37 a.m.

/s/ Lisa Harper
Clerk of the Boards

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

DRAFT MINUTES

Advisory Council Regular Meeting
10:30 a.m., Wednesday, November 12, 2008

Call To Order

Opening Comment: Chairperson Bedsworth called the meeting to order at 10:45 a.m.

Roll Call: Chairperson Louise Bedsworth, Ph.D.; Council Members, Sam Altshuler, Vice Chair Harold Brazil, Ken Blonski, Robert Bornstein, Ph.D., Jeffrey Bramlett, MPA, Emily Drennen, Fred Glueck, William Hanna, John Holtzclaw, Ph.D., Robert T.P. Huang, Ph.D., Kraig Kurucz, Karen Licavoli-Farnkopf, Kendal Oku, Virginia Smyly and Linda Weiner.

Absent: Cassandra Adams, Irwin Dawid, Steven Kmucha, Brian Zamora

Public Comment Period – There were no public comments.

CONSENT CALENDAR

1. Approval of Minutes of September 10, 2008 and October 21, 2008

Minor corrections were requested for the minutes of September 10, 2008, as follows:

- Page 2, 1st paragraph: "...management planning process, including ~~implying~~ applying and..."
- Page 2, header paragraph: "4. 3. Air Quality Planning Committee Meeting of August 11, 2008"
- Page 3, 3rd paragraph: "~~be~~ "she was not sure it should be under..." And "that they do not increase ~~HOT~~ hot spots..."
- Page 5, 1st paragraph under Item 5; identify number of exceedances as 11.

Committee Action: Mr. Altshuler made a motion to approve the minutes of September 10, 2008 and October 21, 2008, as amended; seconded by Dr. Holtzclaw; which carried by unanimously without objection.

COMMITTEE REPORTS

2. Public Health Committee Meeting of October 8, 2008

Chairperson Bedsworth, on behalf of Mr. Zamora, reported that she had given a presentation on the public health impacts of climate change at the meeting of October 8, 2008 and noted that there will not be a Public Health Committee meeting in December.

3. Technical Committee Meeting of October 22, 2008

Mr. Kurucz gave the Technical Committee report, stating the Committee had discussed its recommendation and asked that it be brought forward for review by the Advisory Council. The recommendation is for the District to consider a resolution to address climate change, multi-scale and multi-pollutant modeling and regional pollution. Further, that the District secure a model that can handle multi-pollutants at different scales from local air toxics as well as traditional regional scales, and including CO₂, so that the impacts of climate change could be an input to the model.

He also reported that the Committee completed its agenda, canceled its December meeting, and will schedule an informal luncheon.

After discussion by the Advisory Council, the following amendments to the resolution were recommended:

- Under “Discussion”, omit the second list of presentations;
- Revise Bullet 2: “Apply IPCC global climate data, as the boundary conditions for more local simulations of past and future regional and local climate change; and”
- Revise Bullet 3: “Ability to link meteorology, ocean (i.e., coastal and bay), air quality, and climate change impacts (e.g. energy, ecosystems, water resources and health).”
- Revise “THEREFORE, BE IT FURTHER RESOLVED that the Air District continue its interactions with ~~the~~ local multi-disciplinary experts to facilitate its transition to an integrated planning framework.”

Committee Action: Mr. Hanna made a motion to approve the recommendation, as amended; Dr. Holtzclaw seconded the motion; unanimously carried without objection.

DISCUSSION

4. **Approval of Executive Committee Recommendation on 2009 Slate of Advisory Council Officers:** *The Council considered approval of the 2009 Slate of Advisory Council Officers.*

Committee Action: Dr. Holtzclaw made a motion to approve the 2009 Slate of Officers as follows: Chair Harold Brazil and Vice Chairperson Jeffrey Bramlett, and for the Advisory Council to consider the position of Secretary at the January retreat; Mr. Glueck seconded the motion; carried unanimously without objection.

PRESENTATION

5. Recognition of Outgoing Advisory Council Members

Chairperson Bedsworth recognized the following outgoing Advisory Council Members, thanked them for their long-term commitment in serving on the Advisory Council, and presented each with a plaque: Linda Weiner, Irwin Dawid, Fred Glueck, Sam Altshuler, William Hanna, Brian Zamora.

Council Members thanked outgoing members for their service, dedication and guidance. Deputy APCO, Jean Roggenkamp, recognized Council Members for their service and expertise, thanked Chairperson Bedsworth for her service and leadership as Chairperson, and presented her with a plaque.

DISCUSSION

6. Discussion of Proposed Role of Advisory Council

Chairperson Bedsworth reported that on November 3, 2008, the Executive Officer/APCO met with Advisory Council Officers to further consider the role of the Advisory Council, which is proposed as follows:

The Advisory Council will have its January retreat and then meet 8 times per year; conducting 4 symposia to receive presentations from leading experts on defined topic areas and 1 meeting following each symposium (a total of 4 meetings) to summarize materials presented at the symposium. The Council will assign lead member(s) to prepare the reports from each symposium; members will be assigned based on their familiarity with topic area(s) covered. The Council chair will make a presentation to the Board of Directors after each summary meeting. Staff will develop a document template for the reports.

Each meeting report will include:

- 1) Summary of symposium;
- 2) Key points;
- 3) Emerging issues; and
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Outline of Symposia/Meetings:

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 October 2009 – 4th Symposium
 November 2009 – Discussion of Symposium

There will be no meetings held in June, August, and December. The Officers of the Council will meet on an as needed basis to discuss scheduling and coordination issues.

Gary Kendall, Technical Services Division Director will be the liaison to the Council.

Advisory Council members discussed the proposed schedule, suggested an evaluation component be incorporated into the process, and were presented with an alternate proposal by Ms. Drennen.

Council Members discussed and suggested the following changes to the proposal:

- Expansion of items 1-4 on what each meeting will include;
- Include the word, “recommendations” into the meeting report;
- Requested the word, “effectively” be deleted;
- Discussed an alternate proposal by Council Member Drennen;
- Acknowledged that the structure is new and there is the ability for it to be modified;
- An evaluation component be incorporated;
- The opportunity for new Council Member orientation;
- Consideration be given for the alternative proposal;
- A subcommittee meet to work on symposia programming issues.

Mr. Broadbent thanked Council Members for their dialogue and believed that more clarification regarding the structure could be discussed at the January retreat and modifications could be made as needed. He agreed that the Advisory Council should address key concerns and issues from a technical and scientific standpoint and noted that the new Chair of the Board of Directors will also be attending meetings. He said the first symposia topic will focus on County Health Officers and/or designees, and he further discussed the process for amendment to the District’s Administrative Code.

Committee Action: Mr. Hanna made a motion to accept the proposal as a guideline and framework by which the Advisory Council will operate in the coming year and modify it as necessary; Mr. Glueck seconded the motion; which passed by the following vote: Ayes: 13; Noes: 1 (Drennen); Abstain: 2 (Weiner and Smyly).

OTHER BUSINESS:

7. Council Member Comments/Other Business

Committee Members and staff discussed the District’s need to be engaged in the AB 32 Scoping Plan implementation. Mr. Broadbent reported that staff is forwarding the AB 32 principles developed by the Advisory Council to the Board of Directors for their endorsement.

Dr. Bornstein announced that his paper on local California summer daytime coastal cooling has been accepted by the American Meteorological Society's Journal of Climate, the top atmospheric journal worldwide. It will first be posted on-line and then will appear in print.

8. **Time and Place of Next Meeting:** The next meeting will be a Retreat, held on Wednesday, January 14, 2009 at 10:00 a.m., 939 Ellis Street, San Francisco, CA 94109.
9. **Adjournment:** The meeting adjourned at 12:25 p.m.

Lisa Harper
Clerk of the Boards

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
Memorandum

To: Chairperson Harold Brazil, and
Members of the Advisory Council

From: Jack P. Broadbent
Executive Officer/APCO

Date: January 7, 2009

Re: Discussion Structure of the 2009 Advisory Council Meetings

RECOMMENDED ACTION

Discuss and finalize the 2009 Advisory Council meetings, including format of meetings, topics and dates.

BACKGROUND

In accordance with provisions of the Air District's Administrative Code governing amendments to the Code, notice of Proposed Amendments to the Administrative Code was given at the Board of Directors regular meeting of December 17, 2008. The proposed amendments were to Division I Operating Policies and Procedures of the Board of Directors, Section 2 Board of Directors, Officers – Duties; and Section 7 Advisory Council. The proposed amendments define the meetings and role of the Advisory Council and the duties of the Chairperson of the Board of Directors relative to the Advisory Council. The Board of Directors adopted the proposed amendments to the Administrative Code at the January 7, 2009 Board of Directors meeting. A copy of the approved amendments to the Administrative Code is attached.

DISCUSSION

In response to the amendments to the Administrative Code, staff prepared a proposal for the 2009 Advisory Council Meetings. A copy of the proposal is attached. Staff will present a summary of the amendments to the Air District's Administrative Code and the related proposal for the 2009 Advisory Council Meetings, including meeting format, topics and dates for discussion and approval by the Advisory Council.

Respectfully submitted,

Jack P. Broadbent
Executive Officer/APCO

Prepared by: Gary Kendall

SECTION 2 **BOARD OF DIRECTORS, OFFICERS - DUTIES**

2.2 **CHAIRPERSON.**

The Chairperson shall take the chair at the hour appointed for the meeting and call the District Board to order. In the absence of the Chairperson, the Vice-Chairperson shall call the Board to order and serve as temporary Chairperson. Upon arrival of the Chairperson, the Vice-Chairperson shall relinquish the chair upon the conclusion of the business then pending before the Board. In the absence, or self-determined inability to act, of the Chairperson, or the Vice-Chairperson when the Chairperson is absent, the Board Secretary shall call the Board to order and serve as temporary Chairperson. Upon arrival of the Chairperson or Vice-Chairperson, the Secretary shall relinquish the Chair upon the conclusion of the business then pending before the Board. In the absence, or self-determined inability to act, of the Chairperson, Vice Chairperson or Secretary, members of the Board of Directors shall, by an order on the Minutes, select one of their members to act as temporary Chairperson. Upon the arrival or resumption of ability to act, the Chairperson or Vice-Chairperson shall resume the Chair, upon the conclusion of the business then pending before the Board. It shall be the duty of the Chairperson to attend all meetings of the Bay Area Air Quality Management District Advisory Council.

SECTION 7 **ADVISORY COUNCIL**

7.1 **ACTIVITIES OF COUNCIL.**

A. The Advisory Council shall meet as a full Council a total of nine (9) times each year, for the following purposes: In or around January of each year the Advisory Council shall meet in a retreat format to consult with the Executive Officer/APCO to consider topics for four (4) meetings in a symposium format at which presentations and discussion on specific topics shall take place. The topics for these four (4) meetings may include, but are not necessarily limited to, the following topics: (a) current developments in health information related to air quality; (b) current developments in technologies and techniques for control of air emissions from stationary sources; (c) current developments in technologies and techniques for control of air emissions from mobile sources; and (d) current developments related to air quality in land use planning and transportation planning. Each of these four (4) meetings shall be followed by one meeting (for a total of four (4) additional meetings) at which the presentations made and materials received at the topical meeting are discussed and a report for the Board's consideration on the specific topic is agreed upon.

B. For any single additional meeting, if at least two-thirds (2/3) of the seated members of the Advisory Council determine by a vote taken in a regular meeting of the Advisory Council, or if at least two-thirds (2/3) of the seated members of the Board of Directors determine by a vote taken during a regular meeting of the Board of Directors, that such additional meeting is necessary, the Advisory Council may meet at such additional times and occasions as the Advisory Council, itself, or the Board of Directors shall determine is necessary.

C. The Advisory Council shall make recommendations and reports to the Board of Directors on ~~such~~ the matters considered at its meetings as the Council determines to be advisable and in such manner and form as the Council determines advisable. The

Advisory Council shall consider and report to the Board on specific matters which may be referred to the Council by the Board of Directors or by the Executive Committee of the Board of Directors. The members of the Advisory Council are selected because of their eminence in their professions and fields of endeavor and as representatives of interest groups in the community. The Advisory Council shall consider for the Board of Directors matters which come before the Council to arrive at the best advice upon which the Council may agree, which advice may include the technical, social, economic, environmental and fiscal aspects of such issues.

D. No more than four (4) Advisory Council members shall attend meetings other than meetings of the Advisory Council and meetings of the Board of Directors or Board of Directors' Committees at the District's expense.

7.2 TERM OF OFFICE.

The terms of office for members of the Advisory Council are fixed by Health and Safety Code Section 40263.

7.3 LIMITS ON TERM OF OFFICE.

Effective with appointments for terms on the Advisory Council commencing on January 1, 1992, and thereafter, it is the policy of the Board of Directors that members with twelve (12) consecutive years of membership on the Council not be re-appointed to the Council, except that such members who were serving on the Council on the date of adoption of this policy may be appointed to one additional term. A member not re-appointed because of having served twelve (12) consecutive years on the Council shall again be eligible for appointment after an absence of two years from the Council.

7.4 EXPENSE REIMBURSEMENT.

Members of the Advisory Council shall be reimbursed for actual and necessary expenses incurred by them in attending meetings of the Advisory Council and meetings and public hearings conducted by the Board of Directors. Mileage, tolls, parking fees, meals and other incidental expenses will be allowed at the same rate as is allowed to Members of the Board of Directors provided that receipts are presented pursuant to Section II-5.6.

7.5 OTHER EXPENSES.

Other expenses may be allowed after prior specific approval ~~of~~ by a majority of the ~~Executive Committee or the~~ Board of Directors.

7.6 CLERK CERTIFICATION OF ATTENDANCE AND EXPENSES.

The Clerk of the Boards shall certify to the Director of Administrative Services the attendance and the expense reports of members of the Advisory Council.

Proposal for 2009 Air District Advisory Council Meetings – 12/23/08

There will be a total of nine Advisory Council meetings held during calendar year 2009, all of which will be regular, scheduled, noticed public meetings with opportunity for public comment. The first meeting will be a retreat held with the Advisory Council and Air District staff in January to discuss and establish the Advisory Council’s agenda for 2009. The second through ninth meetings will alternate between a symposium-like meeting with multiple speakers on a single topic, and a discussion meeting to review and summarize the presentations and prepare a report including recommendations, if any. Staff will provide a report format. The Council Chair will present the report to the Board of Directors after each discussion meeting.

The symposium-like meetings and subsequent discussion meetings will be held on the 2nd Wednesday of each month in the seventh floor Board Room starting in February. There will be no meetings held in June, August or December. The symposium-like meetings will be three hours from 9:00 AM to noon, with three to four presentations on a single topic by experts in the particular field. Each presentation will be approximately 30 minutes with time allowed for comments and questions by the members of the Advisory Council. After the presentations, the speakers will form a panel to discuss their presentations and take questions from the Council and members of the public. The discussion meetings will be two hours from 10:00 AM to noon. Lunch will be provided for the members of the Advisory Council and presenters. The Executive Office and related staff will continue to prepare agendas, record minutes, arrange for lunches etc. for all nine meetings of the Advisory Council. The Communication & Outreach Office will provide outreach for each of the four symposium-like meetings. Air District staff will work with one or two lead member(s) of the Advisory Council, appointed by the Chair, Vice-Chair and Secretary, to select speakers and develop an agenda for each of the four symposium-like meetings.

The nine meetings will be scheduled as follows:

- | | |
|--|--------------------------------------|
| 1. Retreat | 10:00 AM - noon, Wed., Jan. 14, 2009 |
| 2. Meeting 1: Air Quality & Public Health | 9:00 AM - noon, Wed., Feb. 11, 2009 |
| 3. Discussion 1: Air Quality & Public Health | 10:00 AM - noon, Wed., Mar. 11, 2009 |
| 4. Meeting 2: TBD | 9:00 AM - noon, Wed., Apr. 8, 2009 |
| 5. Discussion 2 | 10:00 AM – noon, Wed., May 13, 2009 |
| 6. Meeting 3: TBD | 9:00 AM – noon, Wed. July 8, 2009 |
| 7. Discussion 3 | 10:00 AM – noon, Wed., Sep. 9, 2009 |
| 8. Meeting 4: TBD | 9:00 AM – noon, Wed., Oct.14, 2009 |
| 9. Discussion 4 | 10:00 AM – noon, Wed., Nov. 11, 2009 |