

**LAX Area Advisory Committee Meeting
DRAFT MINUTES**

Submitted by Jamie Gutierrez

**Thursday, July 11, 2019 - 7:00 p.m.
Samuel Greenberg Board Room
Clifton A. Moore Administration Building LAX
One World Way, Los Angeles, CA 90045**

Present: Jim Withrow, Danna Cope, Luciano Nocera, Maria Verduzco-Smith, Carl Jacobson, William Cumming

Absent: Mario Chiappe

Excused: Dick Croxall, John Wahlert, Kevin Klowden, Sergio Paz, Scot Nicol, Bill Cumming

Guests:

1. Call to Order

The meeting began at 7:04pm. There was no quorum.

2. Guest Speakers

Dr. Rima Habre (Keck School of Medicine of University of California)

Short-Term Effects of Airport Associated Ultrafine Particle Exposure on Lung Function and Inflammation in Asthmatics

- Dr. Habre investigates UFPs, (Ultra Fine Particles) a result of the pollution of LAX and traffic. Although UFPs are extremely small, they still can have a negative effect on the body. Her study focuses on the very short term (roughly two hours after) effects of the air pollution coming from LAX. These micro particles are breathed very deeply into the lungs and tend to remain in the tissues of the lungs. UFPs are not regulated and hard to measure, but they are toxic. Although UFPs can be found anywhere (cooking, burning a candle), but the main sources in urban areas are traffic and airports. The majority of studies on the effects of UFPs are more focused on traffic sources, and very little studies are devoted to airports. These particles are hard to measure because they are dynamic in space and time, meaning that the amount of UFPs can change dramatically based on the time and place of the measurement. This makes it hard to know how a city is affected.
- UFPs act like gases in the lungs, deposition themselves in the deepest parts of the lungs. The tiny size also makes it easy for them to seep into the blood circulation. Studies show that UFPs are related to airway inflammation, asthma attacks, bronchitis, blood clotting, heart issues, and a decrease in lung function. There is epidemiological evidence on airport-related air pollution in general.
- A study was conducted that recruited 22 adults who were nonsmokers with mild to moderately controlled asthma. The adults walked in two parks on two separate occasions. One park was downwind of LAX, and one (the control site) was not. Lung function, airway inflammation, and inflammation in the blood were measures.

- This is the first study to demonstrate acute inflammation following real-life airport-related UFPs exposure. The study also managed to separate the air pollution from airport to traffic UFPs. Roughly, there was a 30,000 pollutants change between exposure and control. There are still many remaining open questions, such as what happens after two hours, how it affects different people, etc.
- Question: “Where do you go from here? Where do you go in the next phase in your study?”
 - Habre: I would want to do a bigger study and investigate if people living closer to the airport are immune or unaffected by the UFPs. I would also like to study the longer term effects, but a larger grant is needed.
- Question: “Which was more impacting, the particle size, composition, or number?”
 - It is the derived source matter, so the whole “mixture” was the most powerful effect.
- Everything is a spectrum, it is a distribution of these particles and they are all connected.
- Question: “If you cut the distance in half from the airport, how would that affect what you’re looking for?”
 - The chemical signature would be different, but Habre does not know how the health effect would be different.
- Question: “Are there any filtration devices for UFPs?”
 - Habre: I am not an expert, I think there is. It is easier to get at the really small and really big particles, rather than the mid-sized ones.
- Questions: “What are the effects of an idling aircraft?”
 - A study at SEA-TAC I shows that the landing has more impact rather than the takeoff.

3. Approval of Minutes of Previous Committee Meeting

4. Officer’s Report

None.

5. Management Report – Mary Kim – LAWA Community Relations Division

- Future speakers: CONRAC confirmed for the next meeting, August.

6. Unfinished/Old Business

None.

7. New Business/Action Items

- Fill vacancy of Vice Chair – Linda was recognized as a great writer. Luciano will not be at the meeting for August, but has been nominated as interim (until November) Vice Chair

8. Request for Future Agenda Items

- Interest in airfield tour – Starting at Flight Path and visiting new sites. Suggested date: September 12, 6pm
- Board Members to bring in more speakers

9. Comments from Guests and Public

10. Discussions

- Need to do more outreach and strengthen the committee
 - LAXAAC contact list. LAX Community Relations will begin aggregating and build the LAXAAC database.

12. Adjourn

- The meeting adjourned at 8:37pm