



## **WHAT'S NEW ON ENVIRONMENT ?**

### ***AN ARCHITECTURAL SOLUTION FOR GROUND SOUND LEVEL REDUCTION***

The sound emission of motorcycles is an aspect that has an environmental impact and should therefore be taken seriously so that it does not become a problem for the pursuit of our business.

Our Environmental Code looks at this aspect by giving rules to be respected, but we feel it is important to go beyond the simple rules to try to give solutions.

This problem is not clearly limited to motorcycling but involves many aspects of human activities so it is of interest of the FIM Europe Environment Commission to look around to see if there are solutions adopted by others that can be introduced in the field of motorcycling.

A very interesting project is the one that follow.

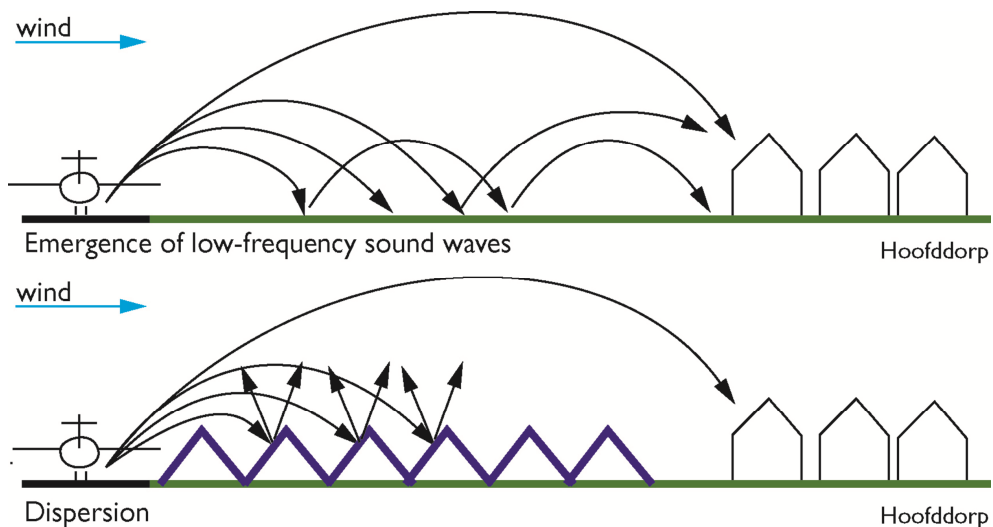
In fact, as you can easily guess, this problem is greatly amplified when the means under consideration are not motorcycles but airplanes, whether they are military or for the carriage of passengers and freight.

For this reason, the Management of the Amsterdam Airport Schiphol, one of the biggest hub in Europe, has a commissioned to a group of designers to study a solution able to reduce the ground sound (low frequency noise caused by aircraft taking off) that disturbed a residential area after that the 5<sup>th</sup> runway of the airport (the Polderbaan) was opened for operation in 2003.

The result was the one showed in the following picture.



This goal, has been obtained by means of earth embankments lined perpendicular in respect of the sound waves creating a certain number of oblique planes able to distort and disperse the sound and lowering in this way the sound level on the residential area as shown in the following scheme.



The final result has been a realization not only very environmental friendly but also very innovative and of architectural value and for this reason the BUITENSHOT LAND ART PARK has been rewarded with the

**Jay Hollingsworth Speas Airport Award**

a very special prize, created in 1983, to be assigned to projects, constructions or requalification designated to improve environmental relationships between the airports, both civil and military, and the communities they served which, for their quality and innovation, are judged worthy of receiving such recognition

If interested, you can find more information in the following:

- <http://www.aviation24.be/airports/amsterdam-schiphol-ams/international-award-ground-noise-reducing-park-near-amsterdam-schiphol-airport/>
- <http://www.hnsland.nl/en/projects/land-art-park-buitenschot>

Going back to the world of motorcycling , this solution (or a similar one), could be applied to those permanent circuit in which there is the necessity to reduce the sound level on neighbor houses or villages.

Naturally every specific case needs to be particularly studied to decide if the above solution suits with the general situation.

***FIM Europe Environment Commission***