



Centro Ricerche Musicali

[Laura Bianchini](#), [Michelangelo Lupone](#)

Composers, directors of  
Centro Ricerche Musicali CRM – Rome

*Design School - East China Normal University*

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### **From vibrating material to the design of an interactive/adaptive listening space**

The lecture will present the artistic and scientific activity of Centro Ricerche Musicali – CRM, an Italian centre for musical and scientific research, operating in Rome from 1988.

In particular, studies on vibrational characteristic of material and on “sound space” will be presented. These studies allowed an innovative approach to musical art and gave the impulse to invention of specific technologies: Planephones (vibrating planar systems), Holophones-sound projectors, Sound Guides, Reflecting Screens, used for creation of innovative music artworks such as Art Sound Installations, temporarily and permanent Adaptive Music Work (opere adattive scultoreo/musicali) and Augmented Instruments.

The first one are artworks which integrate music with plastic form and sound diffusion systems, able to interact with man and environment and to modify themselves consequently. These works are conceived to be integrated in conventional spaces (concert halls, auditorium) or for the valorisation of archaeological sites, museum, architectural and urban spaces. Augmented instruments derive there name from the use of technologies integrated to them, that allows to extend their usual characteristics and to generate new sonorities.

The Lecture will make use of video, musical and other materials.