

LEE Wingwing (LI Yongrong)

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Hong Kong Academy for Performing Arts

Electroacoustic Music Studies Asia Network  
and China Electroacoustic Music Center

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# Sound Design in Electro-Acoustic Music Concert

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## Abstract

Electroacoustic Music is one form of music performance. Any electroacoustic music on recordings will become electronic music.

Electroacoustic Music has the electro/electrical elements which run on electrical power like sound source generators of any kind for examples electrical musical instrument, synthesiser, computer and reproducing sound systems like playbacks. The electro elements also include any kind of controls like computer control, sensors, MIDI interfacing and Show Control systems. Electroacoustic Music also has the acoustic elements which rely on acoustical vibrations airborne or structural-borne. These vibrations will eventually arrive our ears through the medium of air and create a hearing sensation we called sound. The acoustic/acoustical elements include acoustic musical instrument, the acoustics of the performance venues, and the sound reinforcement system.

The nature of the electroacoustic music in performance requires a performance space and sound systems. For this reason the author believes sound system design and acoustics design are critical elements in any electroacoustic music performances. And because electroacoustic music is not only about musical notes and scores, it has the musical sounds and sound effects that emerged into the music form, thus make the author believes besides the music composition there also have the sound composition elements in the electroacoustic music and will suggest besides the music score there also be a sound score for any sonic effects and the applications of the sound systems.

Sound design including the technical design like acoustics and sound system design for the performance, and the artistic design like the use of sound or effects that exhibit

within the music is essential in any electroacoustic music production.

The paper will suggest the sound design elements that are required in electroacoustic music like: the choice of performance venue, the preparations in the pre-production period, the sound design and the sound score and the sound system design including the applications of the loudspeakers.