

"Why do so many old halls remain popular while some newer ones have already undergone extensive renovation?" Leo Beranek

Movie Palaces, 19th century Opera Houses, small town Theaters, and the large Opera and Concert Halls do not remain popular unless they have good acoustics. Even great architectural icons cannot compensate their audiences for the shortcomings of poor acoustics with visual experience alone.

Certainly good sound is a major function of these architectural forms and, as Sullivan has instructed us, "Form ever follows function."

Since good sound is such an integral aspect of your project, an important ally of your architect is the acoustical engineer. The acoustical engineer is trained in the Physics of Sound and can assure that the acoustic environment of your project will be optimal. Using modern computer modeling and analysis borrowed from US Navy sonar technology, the modern acoustician can now accurately predict the quality of acoustics in both new construction and remodeled buildings. To give you a space that speaks to all of the senses, the acoustician can refine the acoustics ; adjusting the intimacy and presence, reverberation and liveness,

spaciousness, clarity, warmth, loudness, brilliance, balance, blend, ensemble, texture, dynamic range and uniformity of sound while avoiding the problems of acoustic glare, echo, background noise and tonal resonance.

"When we build, let us think that we build for ever."

-John Ruskin

Acoustic Rendering™

One of the State of the Art techniques developed and employed by KJWW's Acoustics Group is Acoustic Rendering™. This proprietary tool accurately simulates the acoustics of any space and is used to take you on a virtual tour of the sounds of your new space. Choose a seat in your proposed hall, then sit back and listen to how a performance will sound from there.

"I call architecture frozen music"

-Johann Wolfgang von Goethe

Electronic Sound Systems

The only way to achieve good acoustics in a theater or hall is to start with good room acoustics. Problems with the room generally cannot be fixed with the addition of an electronic sound system.

A good electronic sound system is designed to work with the room acoustics. Conversely, a system which is poorly matched and improperly placed will create its own acoustic problems.

KJWW will design, specify and oversee the adjustment of your electronic sound system so that it becomes "transparent" to the audience and so the character of the acoustic space remains

"Form ever follows function."

- Louis Henri Sullivan

(309) 788-0673
mooneyjw@kjww.com

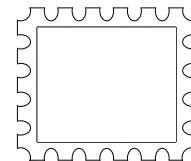
Recent projects include...

Edgecliff Hall , Xavier University, OH
Gaslight Theater, Georgetown, OH
Carnegie Theater, Covington, KY
Becket Amphitheater, Becket, MA
Glendale Lyceum, Glendale, OH
SNS-CLO Auditorium, Oakridge, TN

visit: <http://www.jwmooney.com>

Offices in Chicago, Naperville, Madison,
Des Moines, St Louis, Rock Island
and Ahmedabad, India

KJWW Engineering Consultants
Experience you can build on.®



KJWW Engineering Consultants
Acoustics Group
623 26th Avenue
Rock Island, Illinois 61201

Theater, Concert and Opera Hall Acoustics

