

- 1.) There is an old auditorium that is 60' x 120' x 30'. The floor of the auditorium is wood, and the walls and ceiling are plaster on wood lath. What is the reverberation time of the auditorium when it is empty?

Is that a good auditorium for giving lectures?

Is that a very "live" space?

If you wished to increase the flexibility of the auditorium, what would you do?

- 2.) There are two rooms next to one another. Each one is 20' x 30' x 12' in size and they share one of their 20' walls. The floors are concrete, the walls are normal stud and gypsum board, and the ceiling of the occupied room is also plaster. The other room is a mechanical equipment room, in which there is a standing noise level of 75 dB. What is the noise level going to be in the occupied room as a result of noise transmitted from the mechanical equipment room?

Is that annoying?

Name three things that could be done to improve the situation, and calculate the results of doing one of them.