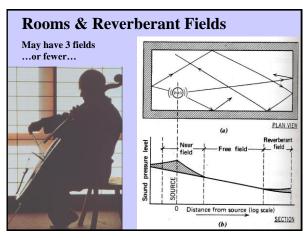
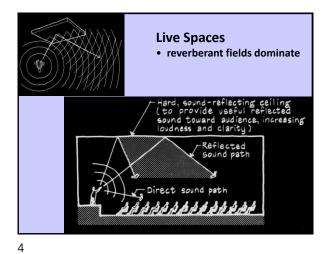


#1 Siting a building in a favorable acoustic environment	Sound transmission in a free field
#2 Designing indoor spaces for the proper acoustic environment	Sound absorption and reflection
#3 Designing adjacent spaces for acoustic independence	Characteristics of sound transmission in materials



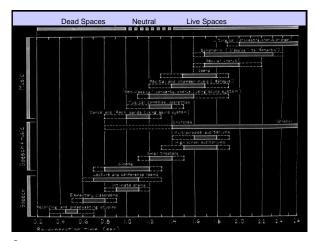






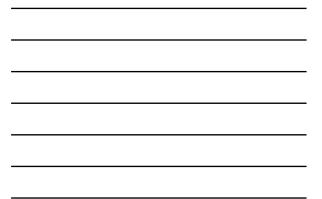
Dead Spaces • Free field dominates

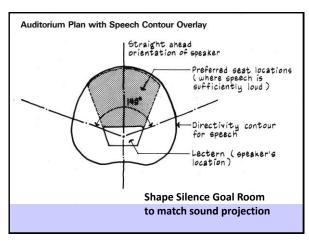




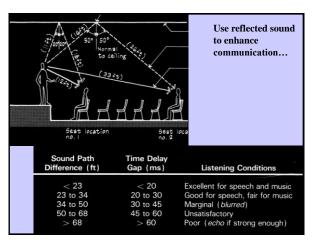


Silence—a monarchy of sound	Lecture halls, auditoria, churches, theatres
Quiet—a democracy of sound	Libraries, offices, restaurants, design studios, lobbies
None—an anarchy of sound	Factories, grocery stores, fast food outlets, indoor swimming pools



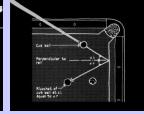




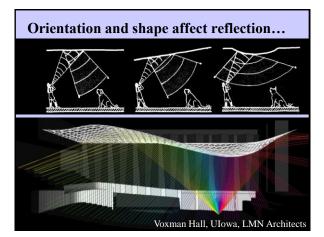




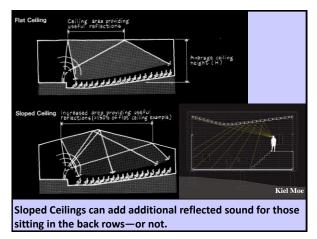




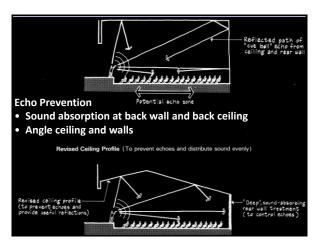
Billiards—Acoustics analogy





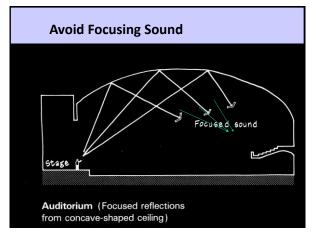


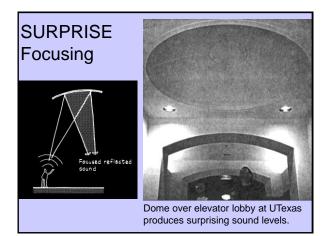


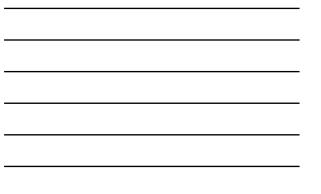


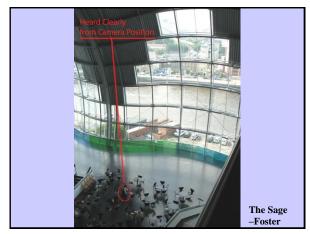










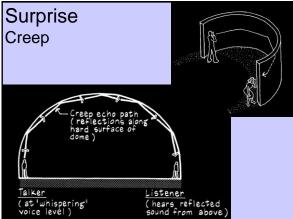








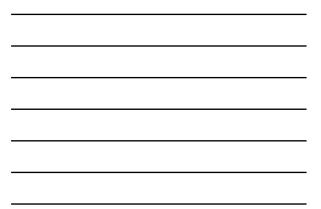




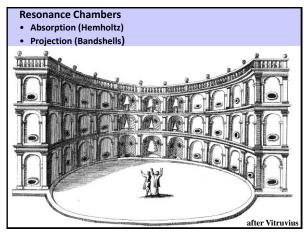








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## Noise Attenuation Strategies (for sites and rooms)

- > Distance
- > Zoning
- > Absorption & Diffusion
- > Isolation
- Masking
- Barriers (math lecture)

