

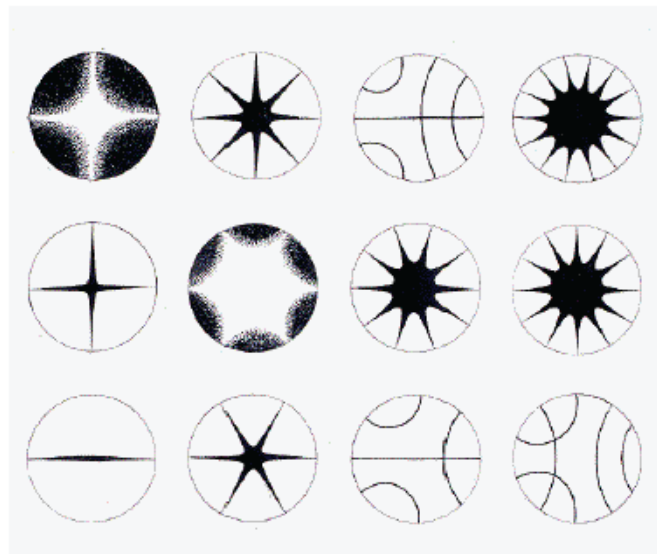
WAVE FORM ORGAN

6 Channel Audio Installation
20' x 15'

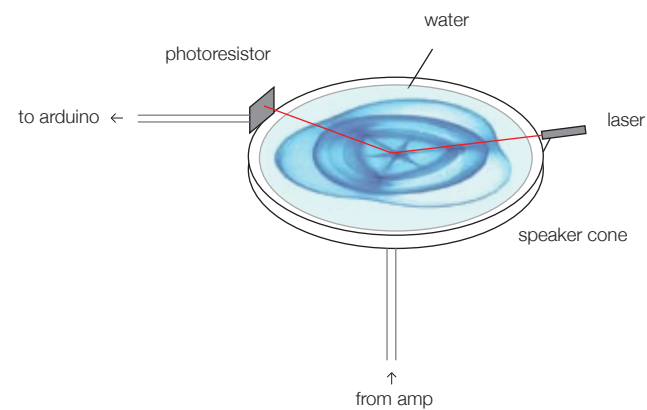
gdunne 2008

Three waveforms interact with each other in this installation, generating music: light waves, sound waves, and the physical waves of water. Six speakers are suspended at various heights throughout the space, acting as a generative musical instrument. Each speaker is waterproofed, facing upward, and filled with water. A light is mounted on each speaker directed to reflect off the surface of the water, hitting a photoresistor, acting as a controller which triggers other speakers. As each speaker vibrates with tones that vibrating the water visually in geometric cymatic patterns (fig a). The sensors on each speaker trigger other speakers in the space, depending on amount of light reflected from the visual patterns in the water. The tones are synthesized in real time, and vary in pitch, length, and volume. The pitch of the tones are chosen to create the most distinct cymatic patterns, resulting in a visual and aural composition and experience.

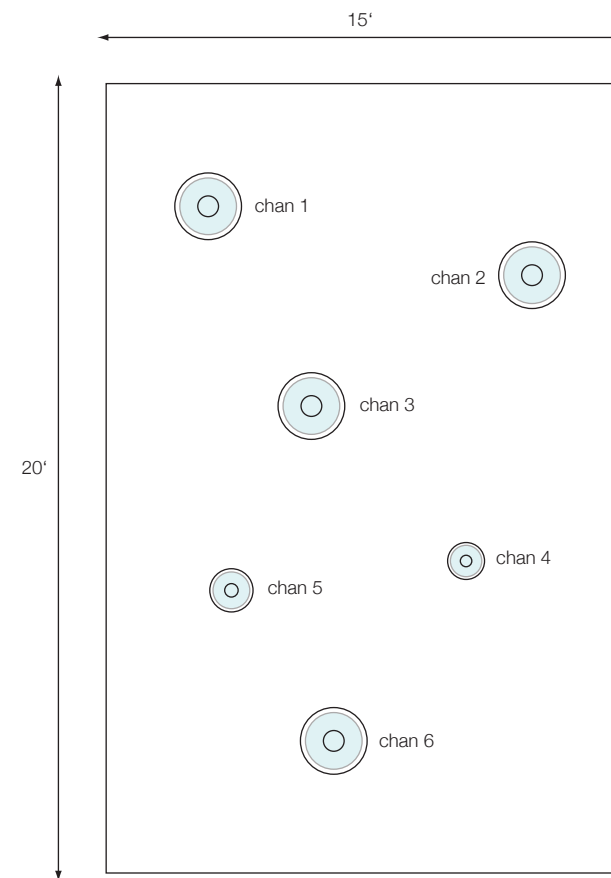
WATER CYMATIC PATTERNS



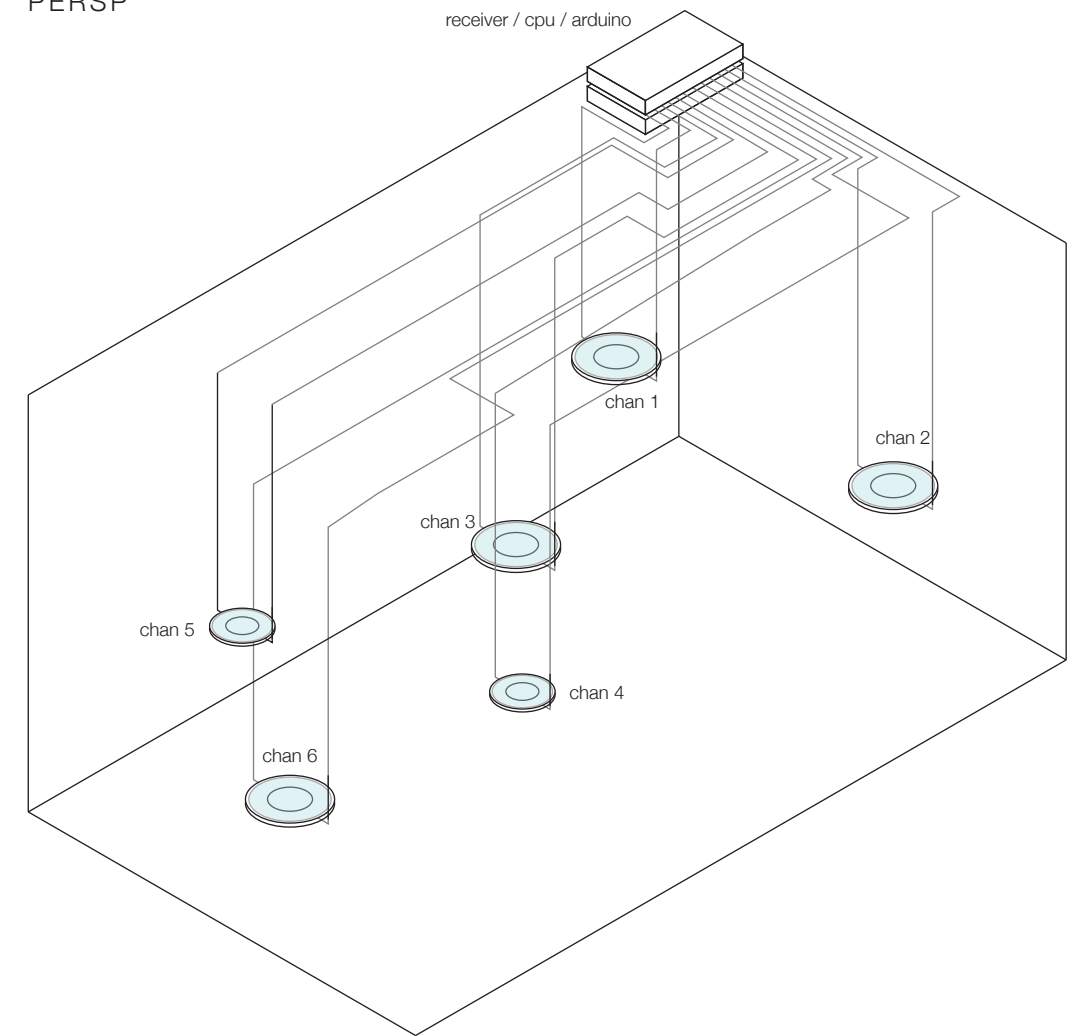
SPEAKER ELEMENT DETAIL



PLAN



PERSP



WIRING / CIRCUIT

