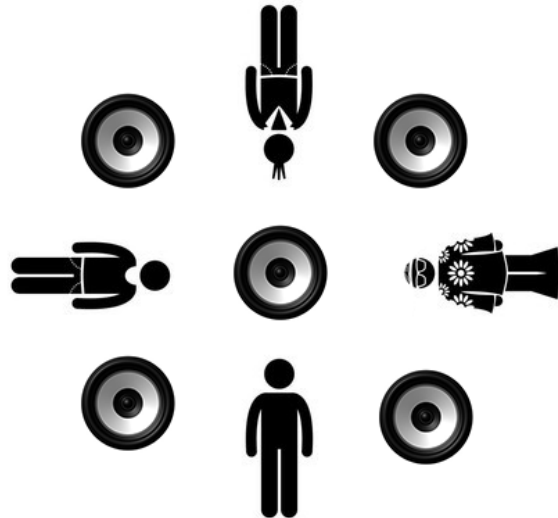


Terramomentum



Terramomentum (earth resonance) is an immersive, sub-sonic installation driven by seismic audification and musification. 4 blindfolded listeners lie on the floor as 5 subwoofers emit audifications and compositions derived from datasets of 3 major earthquakes: Haiti (2010), Christchurch (2011), and Kathmandu (2015). The installation repeats itself in an 8 minute cycle, allowing listeners to easily come and go as they please.

Seismic events (earthquakes) occur at sub-sonic frequencies below 20Hz. The emphasis of subwoofers and listeners on the floor allows for a strong haptic connection to the sounds - decreasing the amount of frequency shift necessary to perceive the original data sets. The installation is as much haptification as it is audification.

The authors can provide a computer, multi-channel audio interface, and amplifiers to be used for the duration of the installation. Ideally, the conference can provide:

- 5 subwoofers
- 5 x 5 meters of space in which to setup the installation

Example content:

- <https://soundcloud.com/seismicounds/christchurch-earthquake>
- <https://soundcloud.com/seismicounds/haiti-earthquake-12th-january>

Note: The authors have also submitted a paper detailing the seismic musification techniques to be used: Submission #21, Musification of Seismic Data.