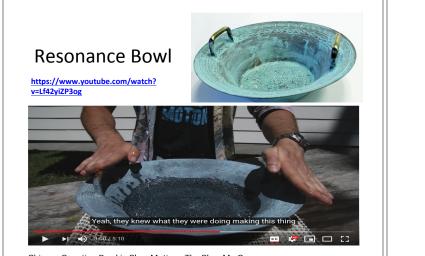


http://www.ldeo.columbia.edu/news-events/listening-earthquakes-inside-earth



Chinese Spouting Bowl in Slow Motion - The Slow Mo Guys



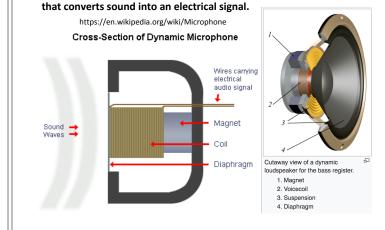
Bowed violin string in slow motion

Quiz and Project

- Description: students use either professional equipment or personal device to record vibrations/ sounds, or analyze recordings by others to understand the physical processes of the sources and propagating medium.
- 14 students, 7 teams (find a teammate and determine the by Jan 24th – email me the info.)
- 10-min presentation on 2/7/2020 (Friday 12:20-1:10 pm) (10% of grade)
- Writing report: 2/7/2020 (?) (8 pages, 12 pt font, figures/references included) (15% of grade)

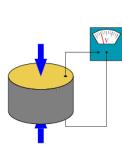
Recording Sound Vibrations

A microphone, colloquially named mic is a device – a transducer –



Hydrophone

A hydrophone is a microphone designed to be used underwater for recording or listening to underwater sound. Most hydrophones are based on a piezoelectric transducer that generates an electric potential when subjected to a pressure change, such as a sound wave.



https://oceanservice.noaa.gov/facts/hydrophone.html https://en.wikipedia.org/wiki/Hydrophone

