Life-Sized Scale Model of the Human Inner Ear

- Fundamental behavior of the Human inner ear is examined thru analytical and physical models
- Goals
  - Demonstrate tuned response of fabricated membrane
  - Verify analytical models
- Current Efforts
  - Attempting to create low stress Si membrane by using SOI wafer
  - Difficulties with non-uniformity of DRIE etching due to aspect ratio of membrane
  - Evaluating Wet Etching techniques to achieve desired thru wafer etch

Principal Investigators: Charles Steele and Sunil Puria, Stanford Univ.
NNUN Site: Stanford University