

# BETTER PROTECTION AGAINST DAMAGE-CAUSING NOISE!

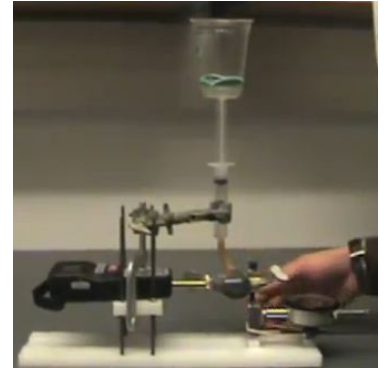
Sensgard, Fairport, NY develops hearing protection and headphone devices. The market is huge: 26 million Americans between the ages of 20 and 69 have high frequency hearing loss due to exposure to loud noises at work or in leisure activities



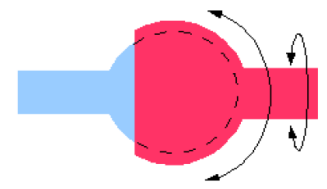
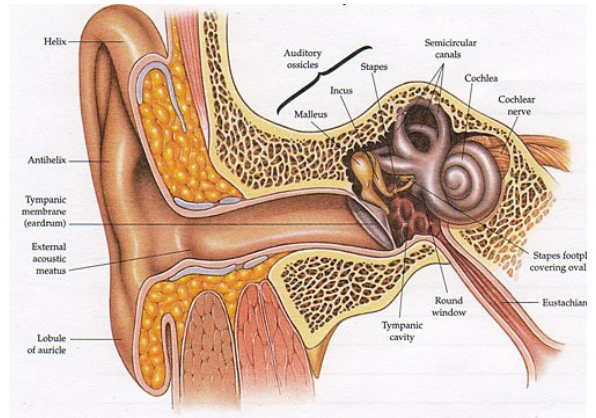
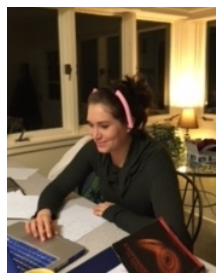
The company benefited from CCMR expertise and matching funds as it needed to do develop a test method for evaluating new and existing foam ear cuffs used on SensGard's products.



A test method was developed and prototyped using a test fixture built specifically to perform strength and air leakage testing on SensGard's disposable foam ear cuffs in collaboration with Professor CC Chu, Department of Fiber Science and Apparel Design.



A subsequent project conducted with Professor Anil Netravali, Department of Fiber Science and Apparel Design, enabled to identify new cuff materials and design changes that will increase long term comfort and performance for their hearing protection device.



Ball Joint  
 3-D printing possible  
 Sample prepared