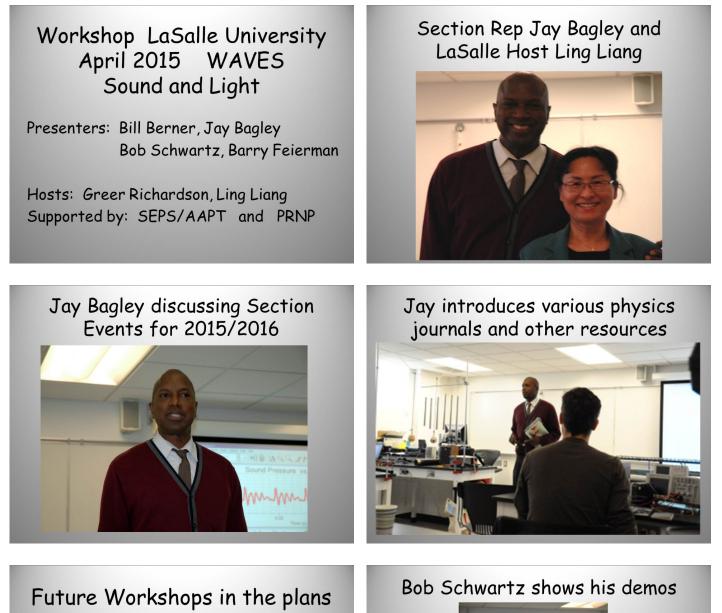
SLIDES FROM THE 2015 WAVES WORKSHOP

Click on a slide to see it in a slideshow.







Sounds that change based on human presence



What do the lights "say"

Sound board enhances amplitude

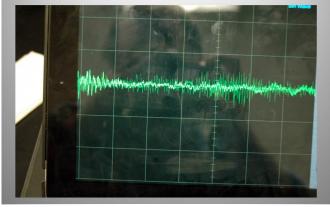


A "water lens" forms an image of the bulb on the ceiling





Listening to a local radio station with a homemade AM detector



What if our eyes were farther apart?





Bill Berner discusses the basic properties of waves



Home made apparatus to show interference of sound waves

Natural Frequency



Mechanical Wave Generator from Univ Penn



Sound Resonance with Tuning Forks

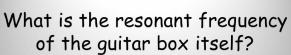


What happens when we introduce a third polarizing filter?

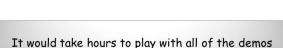
Barry discusses the acoustics of the guitar



It would take hours to play with all of the demos set up in this room











Polarization demo



Barry demonstrates resonance in a closed pipe and how chimes work



Transverse waves on a long spring



Saxophones have strange timbre



Bugles can only play a few harmonics of the fundamental. Does wrapping the tubing around alter its pitch or timbre?



