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Abstract for an Invited Paper  
for the MAS17 Meeting of  
the American Physical Society

**Physics Demonstration and Lecture Show**

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Many exciting experiments and demos will be presented. Expect exciting and educational segments on motion, momentum, vacuum, friction, energy, density, fluid motion, sound waves and sound vibration, light waves, and temperature, and prepare to learn the damage a ping pong ball can do as it hurdles at 700 mph through a vacuum tube, and what the shape of sound looks like in a dancing flame.