2009 Rutgers Faraday Children’s Lecture Crew

Before lecture demos.

Pictures courtesy of Nick Romanenko

Mark Croft  Jon Mayes  Kyle Narcoonis  Joseph Reichert  Cristian Puerta  Will Maiullo  Dave Maiullo
Welcome, introduction, Prof. Horton dedication.
Force reaction force.

Potentially dangerous! Large jerky acceleration/force. Note attempt to have push close to center of mass.
Rotating Chair
Mass close to axis – faster rotation.

Angular momentum conservation.
Rotating Chair
Mass close to axis – faster rotation.

Angular momentum conservation.
Propagating vortex loop.
Waiter’s Tray Demo
Centripetal force

Total internal reflection of green laser light.
Dave fine tuning the wave frequency. Flame tube standing waves.
Bernoulli’s Principal
Bernoulli’s Principal
Bernoulli’s Principal
Hydrogen balloon.

$2H_2 + O_2 \rightarrow 2H_2O + ENERGY$
Ring flinger.

Liquid nitrogen frozen flowers.
Bed of nails.

Force per nail demo.        Prof. (or baloney) sandwich.