



## Mad Science of the Mid-Hudson Special Event/Assembly Summary:

### “Up, Up and Away”



This Mad Science Special Event program focuses on specific scientific principles related to air and air pressure. The typical grade school student might begin to yawn at the mere thought of an hour spent discussing air...but that is the beauty of this special event. Even the science of air can be FUN when presented in the Mad Science way.

The event demonstrates the power that lies dormant in the air around us. We use simple devices to demonstrate the force that air exerts on every object in a room. The children are introduced to Bernoulli and Otto von Guericke, to the vacuum pump and the Magdeburg sphere. They see air crush objects and defy the strength of the strongest people in the room. Even toilet paper will amaze them!

We also introduce the students to common uses of air pressure. Mechanical devices and chemical reactions create vortexes of expanding air that students can see, feel and hear. By using common objects, we emphasize the science present in everyday life. Garbage cans, soda bottles, and even toilet plungers are used to demonstrate scientific principles.

Audience participation is stressed throughout the show. Volunteers assist with most of the demonstrations...even teachers are included during this interactive presentation! The students have fun doing something educational, and even get to participate in the process.



(845) 294-5434

[www.madscience.org/MidHudson](http://www.madscience.org/MidHudson)