Lasers and Clouds in the Classroom: Physics demonstrations for student success!

In-class demonstrations are a classic way to begin a physics lecture. They are one of the best ways to engage students and get their brains focused on the topic of the lecture. Research increasingly shows that one can "Teach More by Lecturing Less." Pedagogical research advises us to use "active-learning" and "inquiry-based" teaching techniques. An engaging in-class demonstration is one of many great ways to meet those goals.

Physics demonstrations are not just valuable for college courses. As weather scientists, we are regularly called to visit and engage with classrooms throughout the community, from kindergarten to high school. Graduate students Ian Glenn and Sarah Bang are pleased to perform several of our favorite in-class demonstrations, with scientific explanations as well as advice on how best to engage students of various ages. We will proceed through the grade levels, from demonstrations suitable for elementary school aged students, to those used in graduate level courses.

Ian Glenn & Sarah Bang
PhD Candidates
Atmospheric Sciences, University of Utah

Wednesday, November 1, 2017, at 3:15pm
110 INSCC
Refreshments and Meet the Speaker at 3:00pm