IIT is recruiting homes for participation in a research project

Researchers in the Department of Civil, Architectural and Environmental Engineering at Illinois Institute of Technology (IIT) are performing tests in homes in and around Chicago in order to determine how outdoor airborne pollutants (specifically outdoor ozone) infiltrate through the walls, roofs, and floors of buildings and enter the indoor environment where we spend most of our time!

The tests we perform are relatively simple. They consist of simultaneous measurements of ozone concentrations indoors and outdoors. We also briefly elevate ozone levels indoors, then we close up the house and measure ozone concentrations as they decrease back to normal levels. We continue measuring ozone concentrations indoors and outdoors for another hour or so, for a total test time of only 1-2 hours. Also during the visits, we will measure (1) your home's air exchange rate (the rate of airflow through the house) and (2) the "leakiness" of your house with a blower door – a device that is commonly used for energy audits. You'll learn about your home and we'll learn about relationships between a home's air leakage and its ability to buffer against outdoor pollution.

We are looking for volunteers to provide access to IIT faculty and students into their homes for pilot tests this summer (June-August 2013). We are primarily looking for **single-family detached homes,** although we will also use some townhomes/apartments/condos.

We are specifically looking for homes that meet the following criteria:
- Can remain **unoccupied for up to 4 hours** during the day of testing
- Is **free of pets** at the time of testing
- Are of a relatively **simple geometry** (e.g., square, rectangular, or slightly L-shaped)
- Have a floor area **less than about 2500 square feet**
- Are preferably **one-story** and **non-smoking**

Please contact Professor Brent Stephens (brent@iit.edu | 312.567.3356) to sign up or to ask further questions. Visit http://built-envi.com/portfolio/ozonepen/ to learn more.