Air Pollution, Climate Change, and Policy

Gretchen Goldman ACPAC Meeting 17 June 2013





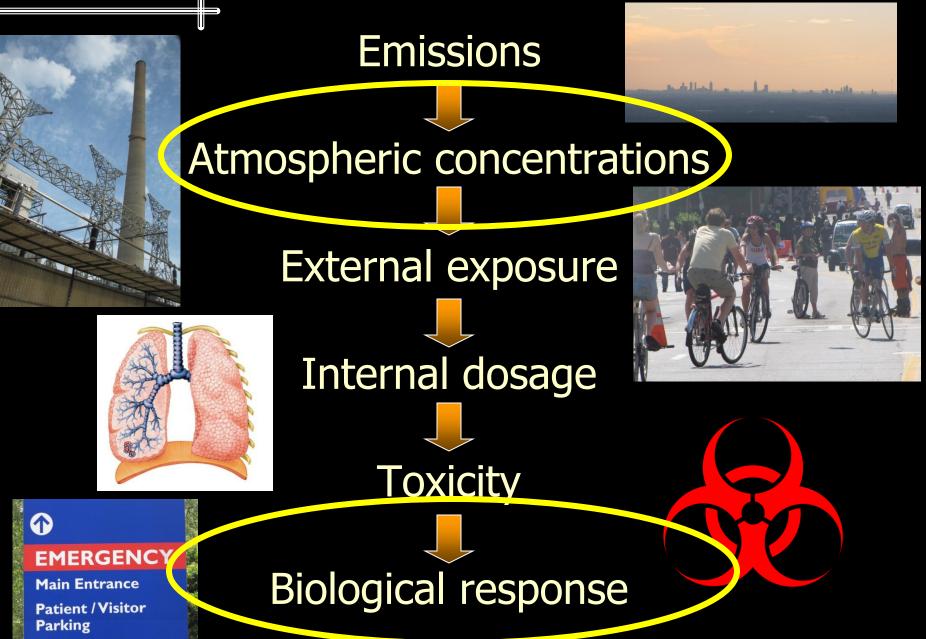
Characterization and Impact of Ambient Air Pollutant Measurement Error in Time-series Epidemiologic Studies

> Gretchen Tanner Goldman Ph.D. Defense

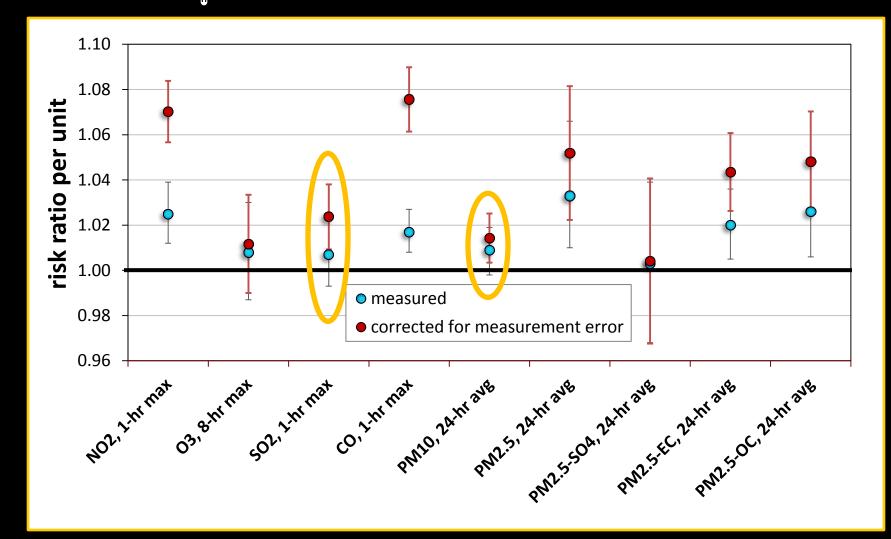




From Sources to Health Impacts



Risk estimates corrected for measurement error associated with central monitor measurement



Georgialnstitute

Cardiovascular disease emergency department visits assessed against ambient pollutant measurements at the Atlanta downtown monitor (Metzger et al., *Epidemiology*, 2004)



The Union of Concerned Scientists puts **rigorous**, **independent science** to work to solve our planet's most pressing problems. Joining with citizens across the country, we combine technical **analysis** and effective **advocacy** to create innovative, practical solutions for a healthy, safe, and sustainable future.



Food & Agriculture Nuclear Power & Global Security & Clean Energy Clean Clean And Democracy Vehicles

Food & Agriculture

THE HEALTHY FARM: A VISION FOR U.S. AGRICULTURE

Industrial food production, which currently dominates U.S. agriculture, is a dead end. It damages air, water and soil, harms rural communities, and limits future productivity.

But there's a better way. Scientists call it agro-ecological agriculture. We call it **healthy farms**. Healthy farms can be just as productive as industrial farms—and a lot more sustainable. Interact with our healthy farm to learn more—and then <u>take</u> <u>action</u> to help make our vision reality!

Clean Vehicles

Where Your Gas Money Goes



Electric Vehicles' Global Warming **Emissions and Fuel-Cost Savings** across the United States





in of Concerned Scientists 2013 :: UCS Report, Where Your Gas Money Goes

Oil companies make huge profits from your pain at the pump.

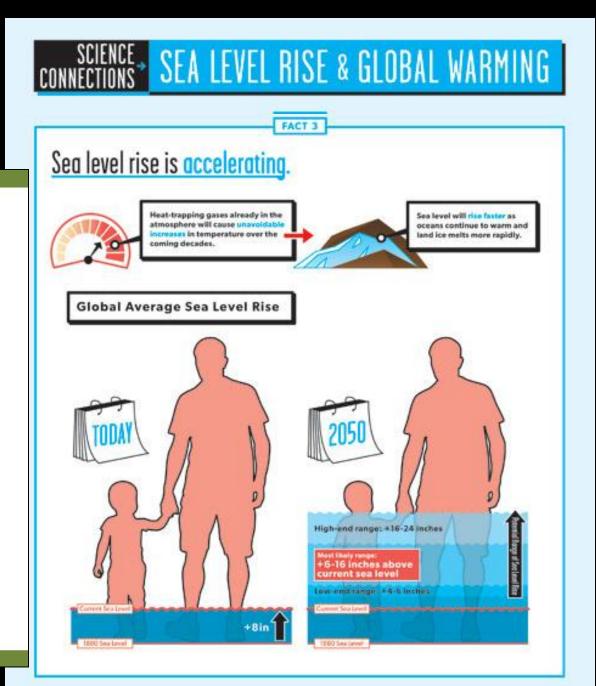
Keep the profits in your pocket by investing in fuel efficiency.

\$19.61 Private and Publicly Traded **Oil Companies**

\$13.63 Government-Owned **Oil Companies**

\$4.87 Refining \$4.08 Distribution and Marketing \$0.81 Gas Stations

Global Warming & Clean Energy





Rising Temperatures, Worsening Ozone Pollution





Center for Science & Democracy

Science in an Age of Scrutiny

HOW SCIENTISTS CA







Union of Concerned Citizens and Scientists for Environ

Improving Citizen Access to Government Scientific Information

Lewis M. Branscomb Science & Democracy Forum

HOSTED BY

The Center for Science and Democracy at the Union of Concerned Scientists

AND The First Amendment Center

warday Cantambar 25, 2012 | 8:70 a

Tuesday, September 25, 2012 | 8:30 a.m. - noon Newseum | 555 Pennsylvania Avenue NW | Washington, DC

A Climate of Corporate Control

How Corporations Have Influenced the U.S. Dialogue on Climate Science and Policy



Union of Concerned Scientists Citizens and Scientists for Environmental Solutions

