

The image shows a close-up, low-angle view of the United States Capitol building. The white marble dome is the central focus, with its intricate architectural details and arched windows. Below the dome, the classical columns of the portico are visible. An American flag flies on a pole in the foreground. The sky is a clear, deep blue. The text is overlaid on the left side of the image.

Science, Democracy, and Advocacy: The Case of Particulate Matter

Gretchen Goldman, PhD
Center for Science and
Democracy

Union of
Concerned Scientists

From Sources to Health Impacts



Emissions



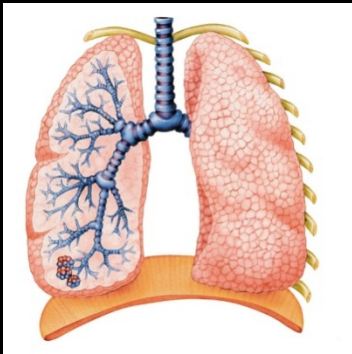
Atmospheric concentrations



External exposure



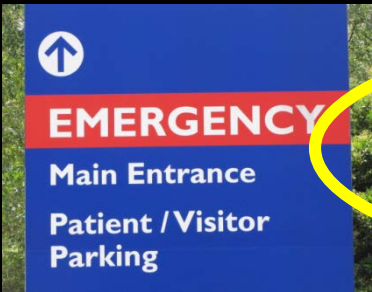
Internal dosage



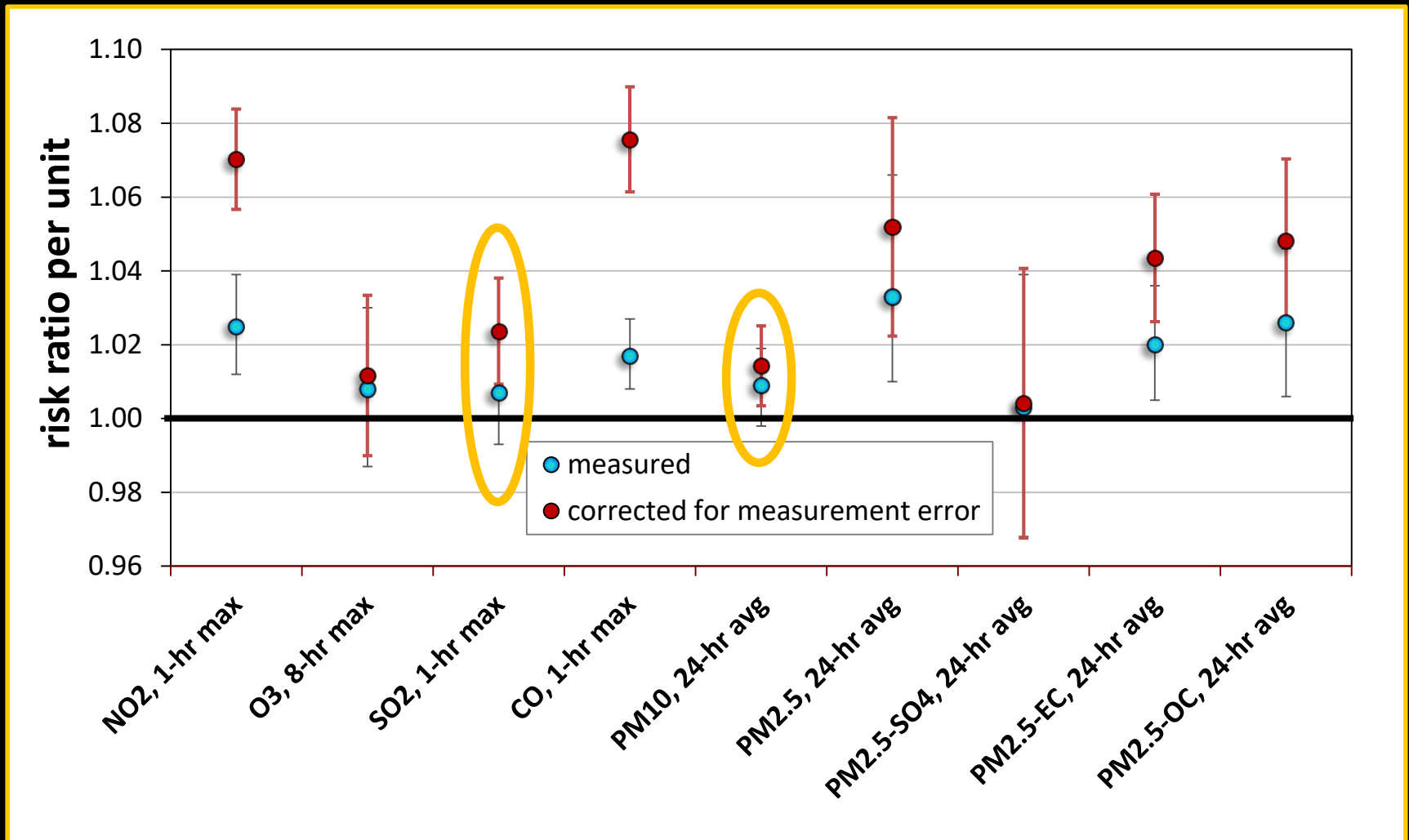
Toxicity



Biological response



Risk estimates corrected for measurement error associated with central monitor measurement



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

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The Clean Air Act Ambient Air Pollutant Policy Development Process

Scientific research on air pollutant and health and welfare effects



EPA assesses the scientific research



EPA receives independent science advice from its clean air science advisors and pollutant review panels



EPA administration makes decision on air pollutant standards



States and regions work to meet and enforce air pollutant standards

Particulate Matter Standard Update

PM-2.5 Nonattainment Areas (2012 Standard)



Particulate Matter Standard Update

The New York Times

E.P.A. to Disband a Key Scientific Review Panel on Air Pollution



Dr. Goldman, an environmental engineer, wrote on Twitter that the E.P.A. quietly [telegraphed its latest move](#) in a personnel announcement Wednesday. In that announcement, the E.P.A. said that a smaller, seven-person umbrella advisory board would from now on be conducting reviews of federal air standards and that the administration hoped to complete any revisions by late 2020.



Gretchen Goldman, PhD

@GretchenTG



Acting EPA Administrator Andrew Wheeler just announced that he'll be nixing the particulate matter review panel. This is bad.

♡ 276 5:24 PM - Oct 10, 2018

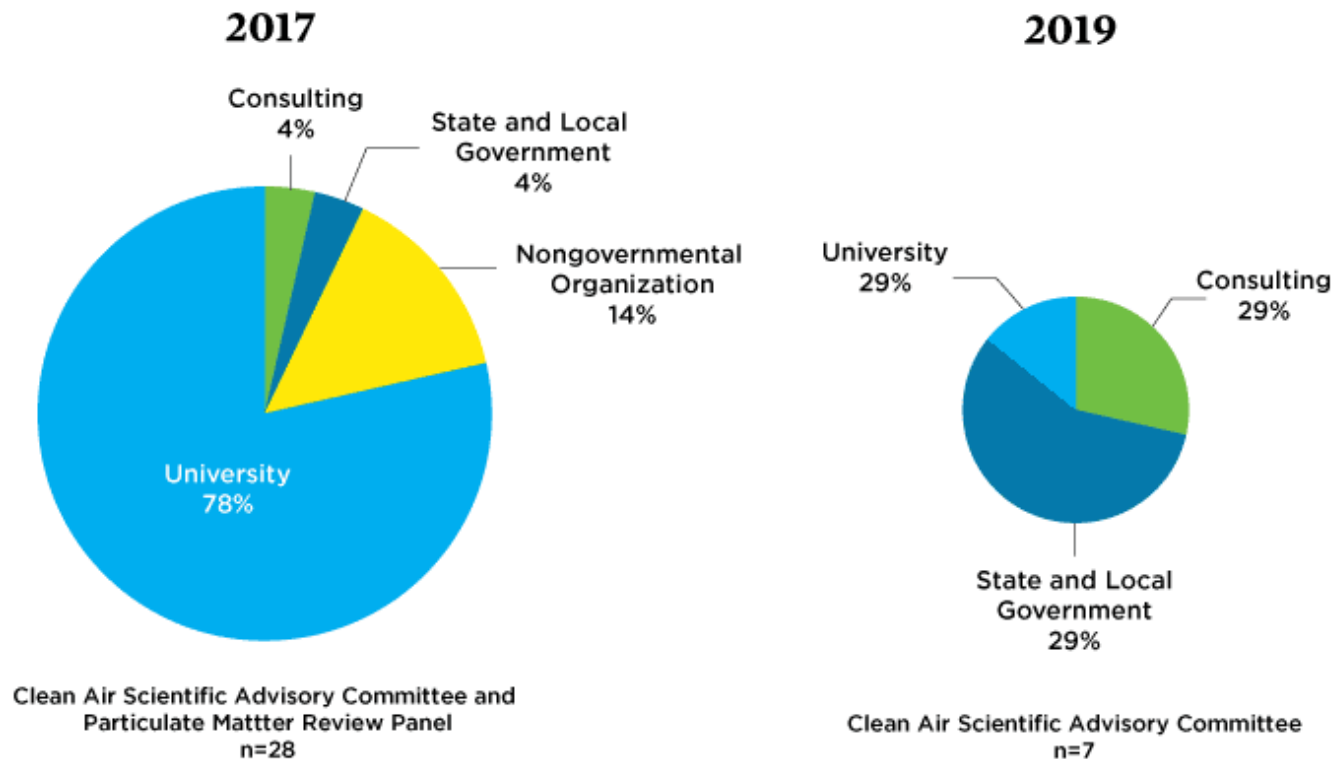


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A Diminishing Role of Science

Changes to EPA Science Advice on Ambient Particulate Pollution Standards



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Don't abandon evidence and process on air pollution policy

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Science 29 Mar 2019:
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Los Angeles Times

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Top advisor to Trump's EPA is called out in major journal for his 'fringe' ideas

By SUSANNE RUST and TONY BARBOZA MAR 21, 2019 | 11:00 AM



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Uncharted Territory: The EPA's Science Advisors Just Called Out Administrator Wheeler

GRETCHEN GOLDMAN, RESEARCH DIRECTOR, CENTER FOR SCIENCE AND DEMOCRACY | APRIL 12, 2019, 11:16 AM EDT

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Yesterday the EPA Clean Air Scientific Advisory Committee (CASAC) [published a letter to Administrator Andrew Wheeler](#) making recommendations on the agency's approach to updating the ambient air pollution standard for particulate matter (PM). Chiefly, the science advisors have now acknowledged the group has inadequate expertise to conduct the review.

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GRETCHEN GOLDMAN is research director for the Center for Science and Democracy at UCS.

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