

Climate Change Science: Knowns and Unknowns

Peter Adams, PhD, a professor at Carnegie Mellon University, leading global warming scholar, and author of the IPCC 3rd Assessment Report offers the scientific perspective and answers your questions.

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9:00 am

**Westfield Insurance
Studio Theater**

Idea Center, 1375 Euclid Ave
Cleveland, OH



Congress is considering regulations on the greenhouse gases that contribute to global warming, but there is an unfortunate amount of confusion amongst the general population on what exactly scientists do and do not know about climate change. The confusion stems from the complexity of the issue combined with some politically motivated disinformation. Nevertheless, there is overwhelming consensus amongst the scientific community that global warming is occurring and that increasing concentrations of greenhouse gases, mostly from fossil fuel burning, are the major culprits. This talk will show how this consensus stems from a well understood chain of causes and effects.

Dr. Adams is associate professor in the Department of Civil and Environmental Engineering and the Department of Engineering and Public Policy at Carnegie Mellon University. His thesis work investigated the climate impacts of airborne particles (aerosols) at the global scale and won the Sheldon K. Friedlander Award for Outstanding Dissertation from the American Association for Aerosol Research.

Dr. Adams's research has focused primarily on computer simulations of the chemistry and physics of airborne particles. Specific interests include aerosol microphysics, organic particulate matter, new particle formation (nucleation), and the behavior of ultrafine particles. He has also investigated the impacts of global change on air quality, ammonia air pollution from agricultural sources, and the air quality implications of distributed generation of electricity.

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