



Consequences of Global Change for Air Quality

Progress review meeting
February 21, 2007

Dr. Dan Costa
ORD National Program Director - Air

ORD Research Provides the Foundation for EPA's Decision-Making

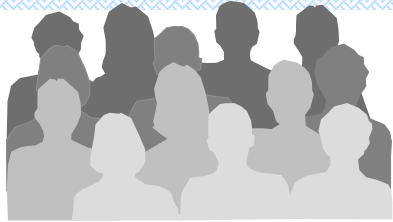
PM research has significant regulatory benefits & impacts.

- ▶ PM NAAQS - protect public health
 - OMB – account for ~80% of all benefits attributable to regulation
 - OMB - \$120 to \$183 billion annual savings for years - 1992 to 2002 (emergency room visits / hospitalizations, lost workdays, premature deaths)

- ORD science reduces uncertainty and strengthens confidence in the NAAQS
- ORD science provides the models and tools needed to implement the NAAQS



EPA PM Research Program



Epidemiology



Molecular

Clinical and Animal
Toxicology Studies

Intramural Program



EPA STAR Program
(PM Centers)

EPA Partners:

- *Other Federal Agencies*
- *Health Effects Institute*
- *National Research Council*
- *Academia*
- *Industry laboratories*

Emission Source
Characterization



Exposure, Atmospheric
Measurement and
Models



Supersites and EPA
Monitoring Network



RESEARCH & DEVELOPMENT

Building a scientific foundation for sound environmental decisions

Working across ORD programs

- It would be difficult for the ORD Air program to start new research involving climate change
 - Many pressing near term needs
 - Strong focus on PM, less on ozone
- As ORD, we do want to meet all of our client needs, and leveraging resources is the only approach to success
- Overlap of key team members creates strong coordination between ORD Air program and ORD Global air activities



Morning Agenda

- 8:45 am Welcome remarks, Dan Costa
- 9:00 am Huiting Mao, UNH
- 9:30 am Peter Adams, Carnegie Mellon
- 10:00 am Break
- 10:15 am Poster Session / Lunch
- 1:30 pm Afternoon session

