

Human Exposure

Questions

- Are our current exposure knowledge limiting our ability to assess organic and related aerosol effects?
- In what ways:
 - Not knowing the outdoor – indoor relationship
 - Spatial homogeneity for areas and species of organic and other aerosol
 - Relationship between health response and “dose” - temporal issues (integration)

More 'Global' Needs

- More exposure knowledge needed
 - Goals/hypotheses need to be defined prior to study to set priorities:
 - Are we underestimating risk because of the poor of refinement exposures?
 - E.g., define appropriate placement of monitoring sites to represent exposure
 - Defining health outcomes
 - Do changes in exposure relate to changes in measured health outcome?

Approaches and Caveats

- Panel Studies
 - Interface of atmos – expos – health
 - Building block for the larger epi
 - Refinement and linkage of models
- Lab studies to examine dose & outcome effects
 - Need reproducible atmosphere & outcomes
- Technology (development & implementation)
 - Portability
 - New developments in small devices for both aerosol and vapor phase materials
 - Real atmosphere – not just particles

Priorities

- Mobile sources
- Comparability of methods and assays
- Multiple monitoring systems for spatial and detailed assessments