AIR QUALITY MONITORING
Part 1 - Welcome

Community Action to Promote Healthy Environments (CAPHE)

Stuart Batterman (stuartb@umich.edu)

CAPHE Partners

Workshop agenda

1. **Welcome**
   - ► Introduction
   - ► Who we are … and Community Action to Promote Healthy Environments
   - ► Goals … what we want to do today

2. **Air quality and health**
   - ► Pollutants
   - ► Health effects
   - ► Emission sources
   - ► What you breath … concentrations
   - ► Air quality standards and the AQI

3. **Air quality monitoring - what, why & how**
   - ► Importance, types, strategies, issues
   - ► Regulatory networks
   - ► Sensors

4. **Getting and viewing the data**
   - ► Short-and long-term trends
   - ► Web portals
   - ► Tracking

5. **Interpreting the data**
   - ► Meteorology and wind roses
   - ► Pollution roses

6. **Wrap-up**
   - ► Next steps
   - ► Your feedback and suggestions
   - ► Thank you!

Who we are and CAPHE

Community Action to Promote Healthy Environments (CAPHE) is a partnership among community-based organizations, community residents, health service providers and public health researchers.

Our goal is to develop and implement components of a scientifically-based, community-led public health action plan to reduce air pollution and associated adverse health effects in Detroit and surrounding communities. CAPHE uses a community-based participatory research approach in which partners are involved in all phases of the work. This includes defining the research problem, designing and implementing the study, interpreting and distributing the results, deciding how results will be applied, and applying the results to create a public health action plan to improve health in Detroit. CAPHE has received funding from the National Institute of Environmental Health Sciences and the Fred A. and Barbara M. Erb Family Foundation.

CAPHE builds on 20 years of community-academic research partnerships. At our inception, we drew on the work of three long-standing partnerships, each of which included community-based organizations, health practice and academic partners: Community Action Against Asthma, the Detroit Community-Academic Urban Research Center and the Healthy Environments Partnership. Over the years, we have built on and extended our membership, now encompassing representatives from community based organizations, including Detroit Hispanic Development Corporation, Detroiters Working for Environmental Justice, Southwest Detroit Community Benefits Coalition, and Southwest Detroit Environmental Vision; governmental institutions, including the Detroit Health Department and Michigan Environment, Great Lakes, and Energy; community leaders at large; academic institutions, including the University of Michigan's School of Public Health, Michigan Medicine, and Taubman College of Architecture and Urban Planning, University of Michigan-Dearborn, and Wayne State University. Representatives from each of these organizations comprise the CAPHE Steering Committee, with responsibility for overseeing CAPHE's day-to-day work, including conducting the basic research underlying the public health action plan, working collaboratively with others to develop the public health action plan, and working to implement prioritized components of the public health action plan.

CAPHE's structure is designed to promote collaboration and shared decision making at all levels of the CAPHE project, and to assure that Detroit residents and leadership have a significant voice in identifying and creating solutions to promote clean air for Detroit's residents.

Goals … what we want to do today

Purpose
- Scientific and technical training
- Hands-on experiences
- Train-the-trainer

Content
- Review air quality science, including key pollutants, air quality standards, and monitoring
- Introduce web sites to obtain air quality data
- Increase understanding and interpretation of air quality data

Get your feedback on specifically:
- Content
- Organization and delivery
- Next steps

Pre-assessment exercise

Quick exercise to help guide and evaluate the content of these modules

Please tell us about yourself:
Your organization and role (describe)
Your interest in air quality (describe)

Your understanding of air quality
1 - Little .... I know it is an issue but can not be specific...
2 - Limited .... For example, I can name some important air pollutants
3 - Moderate .... For example, I can identify important pollutants and sources
4 - Good ... I am familiar with air pollution problems and health
5 – Strong/Excellent ... working knowledge

Where do you get information about air quality?
1 - Websites ... please name
2 - Organizations ... please name
3 - Other .... please name

Your level of comfort with computer/web applications
1 (low)   2 .....   3 (ok) … 4 …. 5 (high)