

The Mickey Leland National Urban Air Toxics Research Center (NUATRC)

Overview of the Mission, Goals, and Research

Presented to:

**The Texas Environmental Research Consortium
(TERC)**

June 2, 2005



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* Member term expires in 2005



NUATRC Research Goals

❖ Research Goals & Core Areas Identified

- ❖ Personal Exposure Assessment
- ❖ Technology Development
- ❖ Human Health Effects
- ❖ Involvement of Communities
- ❖ Symposia/Workshop Development

Personal Exposure Assessment

(Selected Example Projects)

- ❖ **ATAC –Air Toxics and Asthma Children**
Association Between Exposures to Oxygenated Air Toxics and Asthma: An Exposure and Health Effects Study of Houston Area School Children.”
- ❖ **Relationship Between Indoor, Outdoor, and Personal Air (RIOPA) (EOHSI)**
 - ❖ Final Report Approved; Publication expected summer 2005

Air Toxics and Ozone Formation

Volatile Organic Compounds:

- 1,3-butadiene
- Methylene chloride
- Methyl *tert* butyl ether
- Chloroprene
- Chloroform
- Carbon tetrachloride
- **Benzene**
- Trichloroethylene
- **Toluene**
- Tetrachloroethylene
- **Ethyl benzene**
- *o,m & p*-xylenes
- **Styrene**
- 1,4-dichlorobenzene
- *d*-limonene
- *α*- and *β*-pinene

Carbonyl Compounds:

- **Formaldehyde**
- **Acetaldehyde**
- Acrolein
- **Crotonaldehyde**
- Glyoxal
- Methylglyoxal
- Acetone
- **Propionaldehyde**
- **Benzaldehyde**
- **Hexaldehyde**
- **Isovaleraldehyde**
- **Valeraldehyde**
- **o-toluladehyde**
- **m&p-tolualdehyde**

PM Components:

- PM_{2.5}

**BOLD= Ozone
Precursor**

