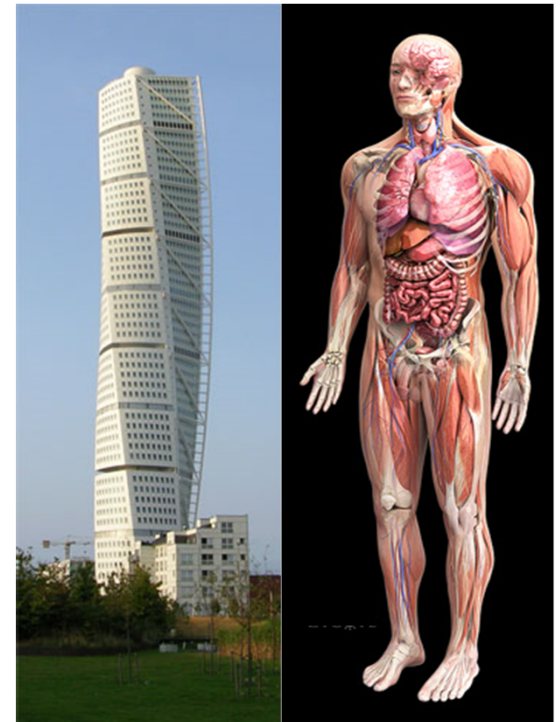


Indoor Air Quality

Building Anatomies & Their Importance

Richard L. Corsi, Ph.D., P.E.

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Civil, Architectural & Environmental Engineering
Co-Director – Center for Sustainable Development (SoA)
The University of Texas at Austin



ESI Mini-Symposium: Environmental Science & Public Health
Legislative Assembly Room, UT SAC – 24 October 2014

Importance of Buildings & IAQ



- **78.7 / 70 / 50 / 26 / 5** (varies by country)
- Higher levels of many toxic chemicals
- Dominates lifetime exposure to toxic chemicals
- Huge impact on fetuses, newborns

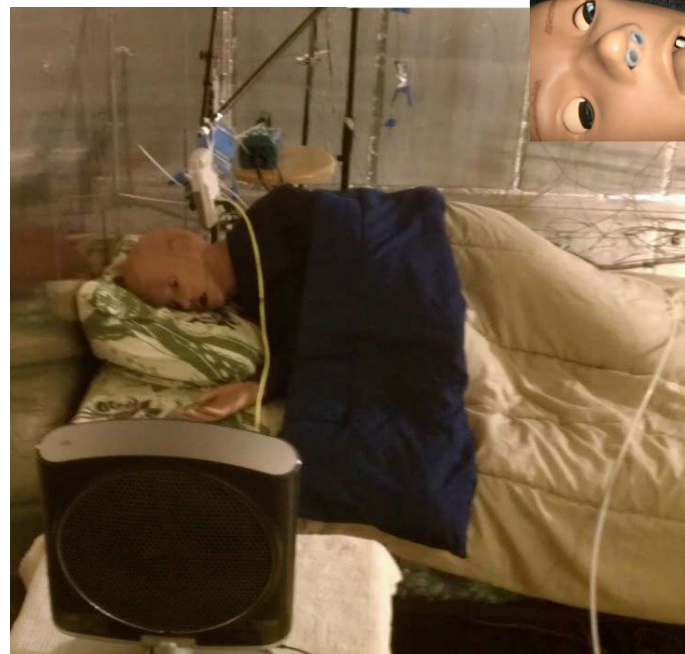
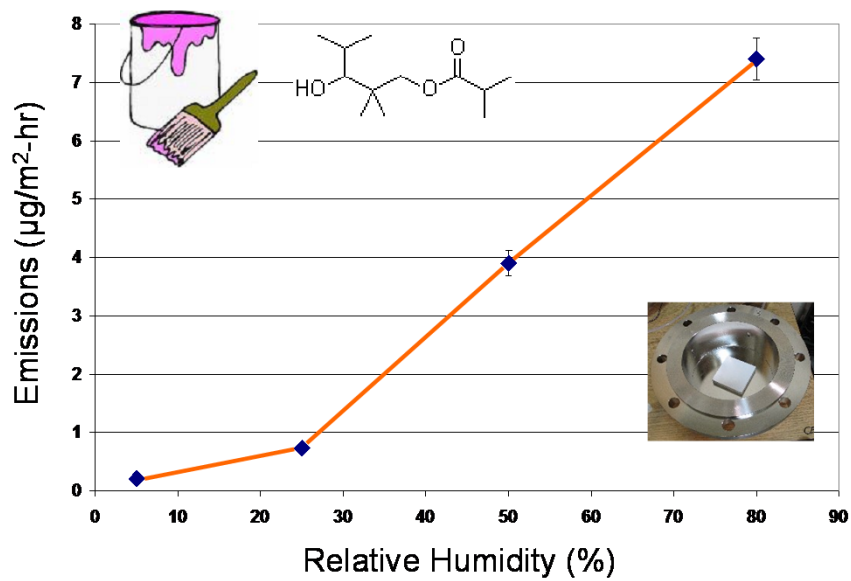
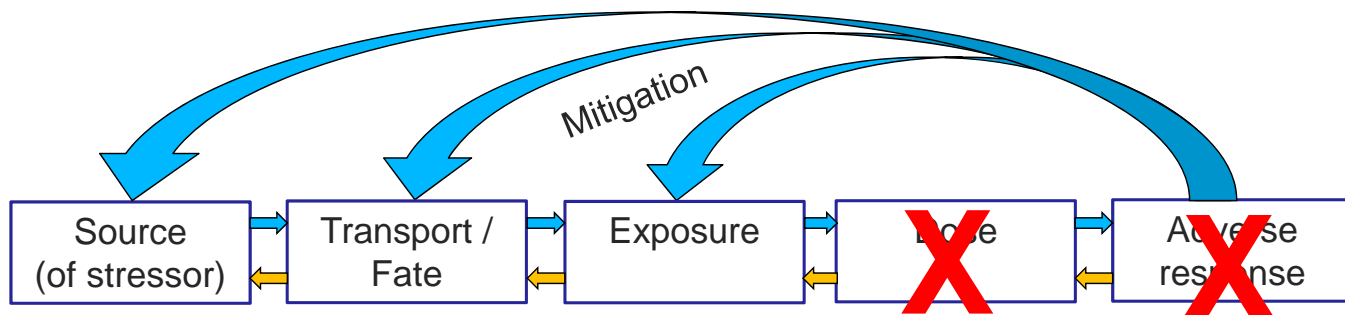
“If truckloads of dust with the same concentration of toxic chemicals as is found in most carpets were deposited outside, these locations would be considered hazardous waste dumps”

Ott & Roberts, “Everyday Exposure to Toxic Pollutants,” Scientific American, 1998

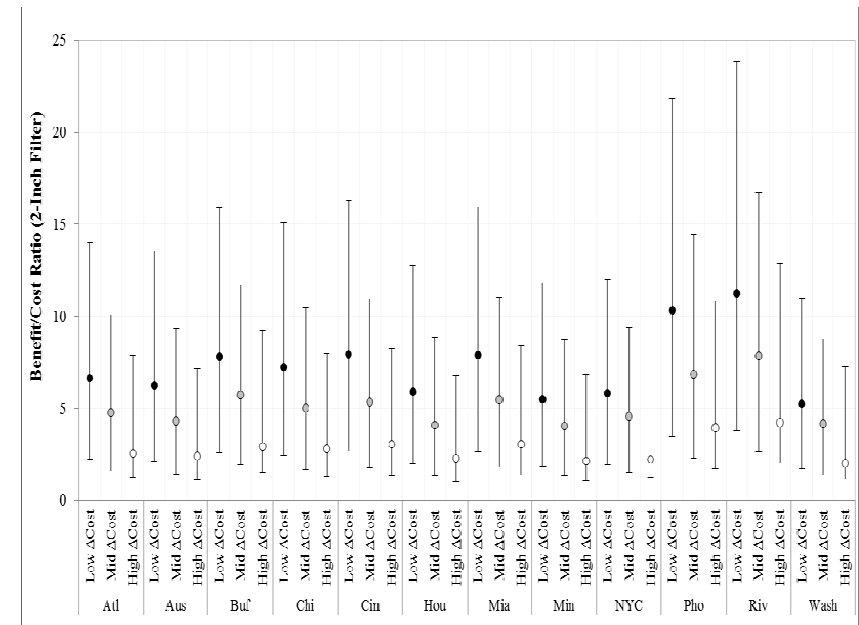
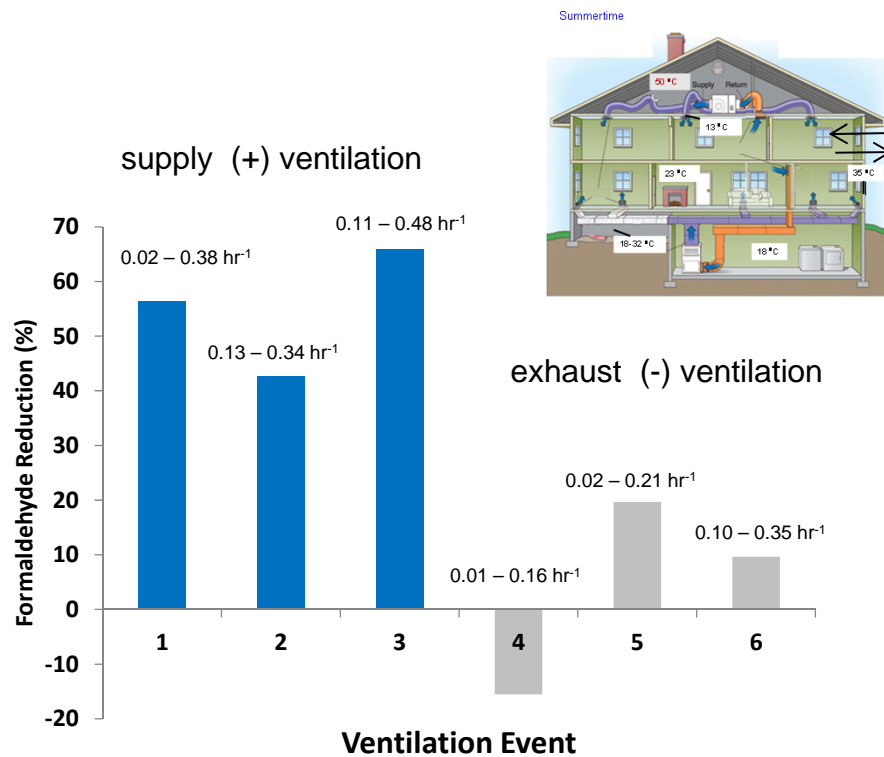
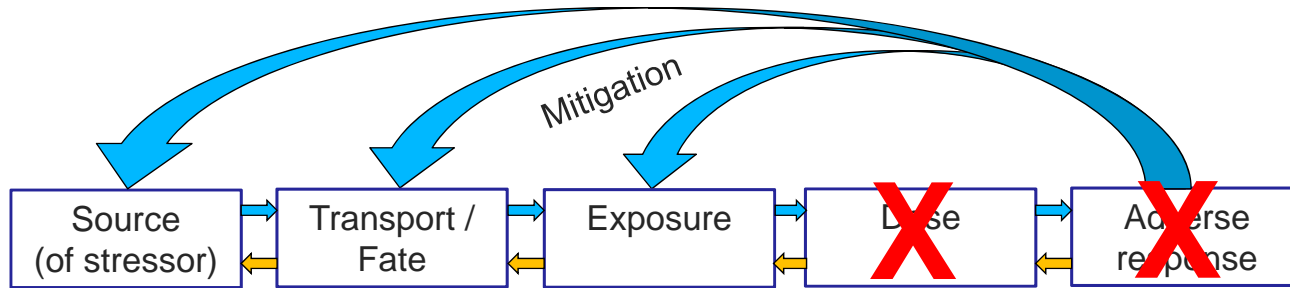
<http://vimeo.com/107277872>

- IAQ affects productivity
- Buildings impact the natural environment

Research Focus



Research Focus



City-specific benefits of AcC filters for O₃ exposure reduction

Interdisciplinary Collaboration

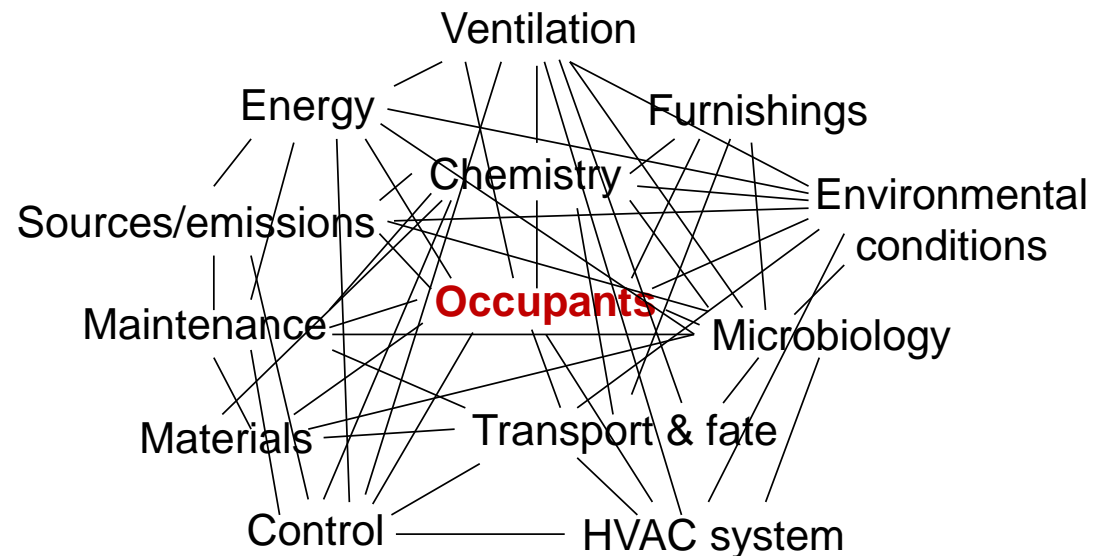


- **Past/Present**

- School of Architecture / Community & Regional Planning
- Human ecology (textile and apparel)
- Psychology
- Communication science
- Economics
- Nursing

- **Future (same +)**

- Epidemiologists
- Health clinicians
- Toxicologists



Communicating w/ Me



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