



Abstract #4026

[Back to main JSM 2000 Program page](#)

[Add To My Program](#) / [View My Program](#) / [What is My Program?](#)

SESSION: [82](#)

TYPE: Poster Sessions

DATE/TIME: Monday, August 14, 2000 : 12:00 PM to 2:00 PM

SPONSOR: [ASA](#)

Abstract

TITLE: A Longitudinal Study of the Health Effects of Indoor Air Among Office Workers

AUTHOR(S): Karl Sieber*+ and Shirley Burton

AFFILIATION(S): NIOSH and Tulane University

ADDRESS: 4676 Columbia Parkway, M.S. R-19, Cincinnati, Ohio, 45226,

EMAIL: wks1@cdc.gov

KEYWORDS: [longitudinal](#) ; [correlation](#) ; [mixed model](#) ; [indoor air](#) ; [sick building syndrome](#)

ABSTRACT: In recent years, concerns over the increasing numbers of health complaints among workers in indoor environments have prompted efforts to identify factors associated with such complaints. Many health complaints have involved nonspecific symptoms and are sometimes called building-related symptoms or the sick building syndrome (SBS). SBS symptoms may include irritative symptoms of the eye, nose, or throat; dermal symptoms such as dry skin; and nervous symptoms such as headache, fatigue, or dizziness. Factors affecting the prevalence of SBS among 88 employees who worked in a building where increased nonspecific symptoms were reported (a 'sick' building) and who later worked in a renovated building from which no complaints were obtained, were investigated. The prevalence of SBS symptoms decreased from 23% in the 'sick' building to 4% in the renovated building. Logistic regression was first used to determine those variables most highly associated with SBS in each building, and then those variables were included in a mixed model accounting for building type and correlation among employee's responses. Factors affecting SBS prevalence across time included building environmental conditions and employees' perception of their workstation and satisfaction with conditions at work. Neither age nor gender were found to be statistically significant.

-
- The address information is for the authors that have a + after their name.

- Authors who are presenting talks have a * after their name.

[Back to the full JSM 2000 program](#)

JSM 2000

For information, contact meetings@amstat.org or phone (703) 684-1221.

If you have questions about the Continuing Education program, please contact Patricia Hayden, patricia@amstat.org.

Revised March 2000