



Indoor Air 2002

Proceedings:
9th International Conference on
Indoor Air Quality and Climate

*Monterey, California
June 30 – July 5, 2002*



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Indoor Air 2002

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FOREWORD

These Proceedings are organized in five volumes. Each volume contains papers presented on a given day of the conference. A complete author index, keyword index, and a list of session titles are presented in each volume along with the Table of Contents for the papers contained in that volume.

Citation of papers When citing a paper from these proceedings in other works, the format of the following example is recommended:

[authors of article]. [title]. In *Indoor Air 2002: Proceedings of the 9th International Conference on Indoor Air Quality and Climate*, Vol. [#], H Levin, ed., Indoor Air 2002, Santa Cruz, California, 2002, pp. [##-##].

Citation example

Weschler, CJ. Connections: Particles, sensory offending filters, the “sink” effect and nasal pungency thresholds. In *Indoor Air 2002: Proceedings of the 9th International Conference on Indoor Air Quality and Climate*, Vol. 1, H Levin, ed., Indoor Air 2002, Santa Cruz, California, 2002, pp. 1-10.

Dedication to Joan M. Daisey 1941-2000

The Organizing Committee of Indoor Air 2002 dedicates the Indoor Air 2002 Conference to our beloved former colleague -- Joan M. Daisey. Joan was a Vice President for the Indoor Air 2002 Conference at the time of her death on February 29, 2000.

After receiving a Ph.D. in physical chemistry from Seton Hall in 1970, Joan Daisey's career started with teaching undergraduate chemistry at Mount Saint Mary's College in New York State. She soon moved to a research position at NYU where, among other efforts, she studied the composition of aerosols in urban air and developed advanced gas chromatographic methods for the analysis of polycyclic aromatic hydrocarbons (PAH) in airborne particulate matter. Joan published more than 40 papers on the organic composition of atmospheric aerosols, including early work on their mutagenicity. She was Principal Investigator for the Airborne Toxic Elements and Organic Substances Study, an important study of non-criteria air pollutants that led to several significant papers on chemical composition and mutagenesis published in a book co-edited with Paul Liroy.

In 1986, Joan came to Berkeley to lead the Chemistry Group of Lawrence Berkeley National Laboratory's Indoor Environment Department (IED). Much of her research focused on organic chemicals in indoor air and on the characterization of environmental tobacco smoke, but she had a remarkable ability to contribute importantly to a broad range of indoor and outdoor environmental research. In 1989, she was appointed as the Department Head for the IED. Under her leadership, the IED added a new research group on exposure and risk analyses and expanded an existing research effort, yielding a new group focusing on indoor air and pollutant transport. During this period, Joan also supported the expansion of an outdoor air quality research program at the Laboratory. At a time when indoor and outdoor air quality research efforts were often

disconnected, Joan conceptualized these issues as a continuum and realized the value of coordinated programs of research.

The very high scientific standards of Joan's research were widely recognized. She was also clearly an innovator – always interested in the scientific frontiers in her field. As examples, she contributed substantially to early research on the transport of organic compounds via soil gas into buildings, chemical reactions among indoor pollutants, and the health effects of pollutant mixtures. Considering Joan's high scientific stature, open mind, and strong leadership and interpersonal skills, it was not surprising that she was sought as a leader for a range of scientific and professional committees. Foremost among these efforts was her service on the Science Advisory Board (SAB) of the U.S. Environmental Protection Agency. First appointed to the SAB in 1986, she was appointed co-chair of the Integrated Human Exposure Committee in 1993 and then chair a year later. Joan served as chair of the SAB's executive committee beginning in 1997 until her death. During her tenure, the SAB was very active—directly through the Executive Committee and via the various standing committees—resulting in 101 full reports, consultations, commentaries, and letter reports sent to the Agency with Joan's signature.

As colleagues, we recall Joan's friendship, mentoring, high energy level, and wit as much as her outstanding scientific accomplishments. The well being of colleagues was a priority for Joan. She enjoyed mentoring young scientists. Somehow, she was able to motivate her young colleagues to go back and do a better and better job, without making them feel criticized. With her positive outlook and abundant energy, she was able to lift the spirits of those around her. Many of her colleagues became lifelong friends. Even in private farewells during the last days of her life, Joan was motivating and encouraging her friends. She was a true inspiration to us all.

April 30, 2002

William J. Fisk (with, Richard G. Sextro, Nancy Brown, Alfred T. Hodgson, Hal Levin)

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