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Research and Development

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# EPA Indoor Air Quality Implementation Plan:

## Appendix E. Indoor Air Reference Data Base



# **EPA Indoor Air Quality Implementation Plan**

## **Appendix E: Indoor Air Reference Data Base**

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## INDOOR AIR REFERENCE DATA BASE

- Abbott, R. D.; Yin, Y.; Reed, D. M.; Yano, K. (1986) Risk of stroke in male cigarette smokers. *N. Engl. J. Med.* 315: 717-726.
- Abe, S.; Fujimoto, K.; Fujitaka, K. (1984) Relationship between indoor and outdoor gamma ray exposure in wooden houses. *Radiat. Prot. Dosim.* 7: 267-269.
- Abraham, J. L.; Hertzberg, M. A. (1981) Inorganic particulates associated with desquamative interstitial pneumonia. In: Zwillich, C. W.; Cherniack, R. M., eds. *The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO.* *Chest* 80: 67S-70S.
- Abu-Jarad, F.; Fremlin, J. H. (1982) The activity of radon daughters in high-rise buildings. *Health Phys.* 43: 75-80.
- Abu-Jarad, F.; Fremlin, J. H. (1982) The activity of radon daughters in high-rise buildings and the influence of soil emanation. *Environ. Int.* 8: 37-43.
- Abu-Jarad, F.; Fremlin, J. H. (1983) The indoor concentration of radon daughters in three different areas of the U. K. *Health Phys.* 44: 479-485.
- Acheson, E. D.; Gardner, M. J.; Pannett, B.; Barnes, H. R.; Osmond, C.; Taylor, C. P. (1984) Formaldehyde in the British chemical industry. *Lancet* (8377): 611-616.
- Ackers, J. G. (1984) Direct measurement of radon exhalation from surfaces. *Radiat. Prot. Dosim.* 7: 199-201.
- Ackers, J. G.; Bosnjakovic, B. F. M.; Strackee, L. (1984) Limitation of radioactivity concentrations in building materials based on a practical calculation model. *Radiat. Prot. Dosim.* 7: 413-416.
- Adair, E. R.; Berglund, L. G. (1985) Comfort heating with microwaves: an idea whose time may have come. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark.* Copenhagen, Denmark: VVS Kongres; pp. 115-120.
- Adams, J. A. S.; Lowder, W. M.; Gesell, T. F., eds. (1972) *The natural radiation environment II. Proceedings of the second international symposium on the natural radiation environment; August; Houston, TX.* Houston, TX: University of Texas at Houston and Rice University.

Adams, W. A. S. (1962) Radioactivity in the lithosphere. In: Israel, H.; Krebs, H., eds. Nuclear radiation and geophysics. New York, NY: Academic Press.

Adamson, L. F.; Bruce, R. M. (1979) Suspended particulate matter: a report to congress. Research Triangle Park, NC: U. S. Environmental Protection Agency, Environmental Criteria and Assessment Office; EPA report no. EPA-600/9-79-006. Available from: NTIS, Springfield, VA; PB82-189556.

Afonso, C. F. A.; Maldonado, E. A. B.; Skaret, E. (1986) Measuring indoor air movement: an essential task to characterize indoor air quality. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 592-601.

Ager, B. P.; Tickner, J. A. (1983) The control of microbiological hazards associated with air-conditioning and ventilation systems. Ann. Occup. Hyg. 27: 341-358.

Ahlstroem, R.; Berglund, B.; Berglund, U.; Lindvall, T. (1986) Formaldehyde odor and its interaction with the air of a sick building. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 289-295.

Ahlstrom, R.; Berglund, B.; Berglund, U.; Lindvall, T. (1984) Odor interaction between formaldehyde and the indoor air of a sick building. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 461-466. Available from: NTIS, Springfield, VA; PB85-104206.

Ahmed, T.; Danta, I.; Dougherty, R. L.; Schreck, R.; Sackner, M. A. (1983) Effect of NO<sub>2</sub> (0.1 ppm) on specific bronchial reactivity to ragweed antigen in subjects with allergic asthma. Am. Rev. Respir. Dis. 127: 160.

Ahmed, T.; Marchette, B.; Danta, I.; Birch, S.; Dougherty, R. L.; Schreck, R.; Sackner, M. A. (1982) Effect of 0.1 ppm NO<sub>2</sub> on bronchial reactivity in normals and subjects with bronchial asthma. Am. Rev. Respir. Dis. 125: 152.

Air Filtering Design Committee. (1967) Studies concerning the effects of atmospheric pollution on the indoor environment and measures to prevent pollution: the methods to evaluate the indoor dust concentration in the building ventilated by the equipment with air filters. Air Cleaning (Tokyo) 4(5): 1-31.

Akerblom, G.; Andersson, P.; Clavensjo, B. (1984) Soil gas radon - a source for indoor radon daughters. Radiat. Prot. Dosim. 7: 49-54.

Akiba, S.; Kato, H.; Blot, W. J. (1986) Passive smoking and lung cancer among Japanese women. *Cancer Res.* 46: 4804-4807.

Akimenko, V. V.; Andersen, I.; Lebowitz, M. D.; Lindvall, T. (1986) The "sick" building syndrome. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 87-97.

Akland, G. G.; Hartwell, T. D.; Johnson, T. R.; Whitmore, R. W. (1985) Measuring human exposure to carbon monoxide in Washington, D.C., and Denver, Colorado, during the winter of 1982-1983. *Environ. Sci. Technol.* 19: 911-918.

Albert, R. E.; Lewtas, J.; Nesnow, S.; Thorslund, T. W.; Anderson, E. (1983) Comparative potency method for cancer risk assessment: application to diesel particulate emissions. *Risk Anal.* 3: 101-117.

Albert, R. E.; Sellakumar, A. R.; Laskin, S.; Kuschner, M.; Nelson, N.; Snyder, C. A. (1982) Gaseous formaldehyde and hydrogen chloride induction of nasal cancer in the rat. *JNCI J. Natl. Cancer Inst.* 68: 597-603.

Alberti, M.; Ruggeri, R. (1985) A method to check thermal comfort conditions in high industrial buildings provided with radiant panels heating plant. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 27-32.

Alexandersson, R. (1986) Fibres and particulates in the indoor environment. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 27-28.

Alfheim, I.; Bergstrom, J. G. T.; Jensson, D.; Moeller, M. (1983) Mutagenicity in emissions from coal- and oil-fired boilers. *EHP Environ. Health Perspect.* 47: 177.

Alfheim, I.; Ramdahl, T. (1984) Environmental impact of residential wood heating in Scandinavia. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-70.7.

Alfheim, I.; Ramdahl, T. (1984) Contribution of wood combustion to indoor air pollution as measured by mutagenicity in Salmonella and polycyclic aromatic hydrocarbon concentration. *Environ. Mutagen.* 6: 121-130.

Alter, H. W. (1981) Passive integrating radon monitor for environmental monitoring. In: Vohra, K. G., et al., eds. *Natural radiation environment: proceedings of the 2nd special symposium on natural radiation*; New Delhi, India: Wiley, Ltd.; pp. 329-336.

Alter, H. W.; Oswald, R. A. (1983) Results of indoor radon measurements using the Track Etch method. *Health Phys.* 45: 425-428.

Alter, W. H.; Oswald, R. A. (1987) Nationwide distribution of indoor radon measurements: a preliminary data base. *J. Air Pollut. Control Assoc.* 37: 227-231.

Alzona, J.; Cohen, B. L.; Rudolph, H.; Jow, H. N.; Frohlicher, J. O. (1979) Indoor-outdoor relationships for airborne particulate matter of outdoor origin. *Atmos. Environ.* 13: 55-60.

Amdur, M. O. (1960) The response of guinea pigs to inhalation of formaldehyde and formic acid alone and with a sodium chloride aerosol. *Int. J. Air Pollut.* 3: 201-220.

Amendola, A. A.; Hanes, N. B. (1984) Characterization of indoor carbon monoxide levels produced by the automobile. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 97-102. Available from: NTIS, Springfield, VA; PB85-104214.

American ATCON. (1985) A review of potential low-cost mitigative measures for soil-generated radon: 'phase I' report draft. Report no. 1401/1334.

American Conference of Governmental and Industrial Hygienists. (1986) Bioaerosols. *Appl. Ind. Hyg.* 1: R-19 - R-23.

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (1981) ASHRAE standard: ventilation for acceptable indoor air quality. Atlanta, GA: The American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.; ASHRAE report no. ASHRAE 62-1981.

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (1985) Air quality: ventilation, hazardous gas, and radon contaminants: a collection of papers from the ASHRAE annual meeting; June; Honolulu, HI; ASHRAE technical data bulletin; HI. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. Also published in ASHRAE Trans. 91.

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (1985) Final report of the presidential ad hoc committee on environmental health issues. Atlanta, GA: ASHRE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 1-4.

American Thoracic Society. (1985) Guidelines as to what constitutes an adverse respiratory health effect, with special reference to epidemiologic studies of air pollution. *Am. Rev. Respir. Dis.* 131: 666-667.

Amiro, A. G. (1969) Carbon monoxide presents public health problem. Presented at: 33rd annual educational conference, National Association of Sanitarians; June; Houston, TX. *J. Environ. Health* 32: 83-88.

- Ammann, H. A.; Berry, M. A.; Childs, N. E.; Mage, D. T. (1986) Health effects associated with indoor air pollutants. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 53-70.
- Andelman, J. (1987) Water volatilization study. Pittsburgh, PA: University of Pittsburgh.
- Andelman, J. B. (1985) Human exposures to volatile halogenated organic chemicals in indoor and outdoor air. *EHP Environ. Health Perspect.* 62: 313-318.
- Andelman, J. B. (1985) Inhalation exposure in the home to volatile organic contaminants of drinking water. *Sci. Total Environ.* 47: 443-460.
- Andersen, A. A. (1958) New sampler for the collection, sizing, and enumeration of viable airborne particles. pp. 471-484.
- Andersen, I. (1986) Sick buildings: physical and psychosocial features, effects on humans and preventive measures. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 77-81.
- Andersen, I.; Korsgaard, J. (1986) Asthma and the indoor environment: assessment of the health implications of high indoor air humidity. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 121-127.
- Andersen, I.; Lundqvist, G. R.; Molhave, L. (1975) Indoor air pollution due to chipboard used as a construction material. *Atmos. Environ.* 9: 1121-1127.
- Andersen, I.; Lundqvist, G. R.; Molhave, L. (1976) The effect of air humidity and sulphur dioxide on formaldehyde emission from a construction material (chipboard). *Holzforsch. Holzverwert.* 28: 120-121.
- Andersen, I.; Lundqvist, G. R.; Molhave, L.; Pedersen, O. F.; Proctor, D. F.; Vaeth, M.; Wyon, D. P. (1983) Human response to controlled levels of toluene in six-hour exposures. *Scand. J. Work Environ. Health* 9: 405-418.
- Andersen, I.; Molhave, L. (n.d.) Controlled human studies with formaldehyde. In: Gibson, J. E., ed. Formaldehyde toxicity. New York, NY: Hemisphere Publishing Corporation; pp. 154-165.
- Andersen, I.; Seedorff, L.; Skov, A. (1982) A strategy for reduction of toxic indoor emissions. *Environ. Int.* 8: 11-16.

Andersen, I.; Seedorff, L.; Skov, A. (1982) Verminderung toxisch wirkender Emissionen im Innenraum [Reduction of toxic indoor emissions]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 145-153. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

Anderson, H. R. (1978) Respiratory abnormalities in Papua New Guinea children: the effects of locality and domestic wood smoke pollution. Int. J. Epidemiol. 7: 63-72.

Anderson, H. R. (1979) Respiratory abnormalities, smoking habits and ventilatory capacity in a highland community in Papua New Guinea: prevalence and effect on mortality. Int. J. Epidemiol. 8: 127-135.

Anderson, M. K.; Brookman, E. T. (1986) Preliminary analyses at a PM10 sampling site using a combined source apportionment approach. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-25.3.

Anderson, R. F.; Allensworth, D. C.; DeGroot, W. J. (1967) Myocardial toxicity from carbon monoxide poisoning. Ann. Intern. Med. 67: 1172-1182.

Andrews, J. N.; Wood, D. F. (1974) Radium-226, radon-222 and lead-210 in Bath Thermal Springs compared with some environmental waters. Health Phys. 27: 307-310.

Andrews, L. R.; Goldstein, I. F. (1986) Use of the palmes sampler for measurement of two-day average nitrogen dioxide concentrations in urban residences. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-6.7.

Anger, W. K.; Johnson, B. L. (1985) Chemicals affecting behavior. In: O'Donoghue, J. L., ed. Neurotoxicity of industrial and commercial chemicals, v. I. Boca Raton, FL: CRC Press; pp. 51-148.

Anonymous. (1984) Editors' page: international system of units [manuscript guidelines]. Health Phys. 47: 3-5.

Apte, M. G.; Traynor, G. W. (1986) Comparison of pollutant emission rates from unvented kerosene and gas space heaters. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 405-416.

Archer, V. E. (1986) Underground mining, smoking, and lung cancer [Letter in response to Damber and Larsson, 1985]. JNCI J. Natl. Cancer Inst. 76: 553.

ARIX. (1982) Planning and design for a radiation reduction demonstration project: report to state of Montana Department of Health and Environmental Sciences. Grand Junction, CO: ARIX.

Arnow, P. M.; fink, J. N.; Schlueter, D. P.; Barboriak, J. J.; Mallison, G.; Said, S. I.; Martin, S.; Unger, G. F.; Scanlon, G. T.; Kurup, V. P. (1978) Early detection of hypersensitivity pneumonitis in office workers. Am. J. Med. 64: 226-242.

Aronow, W. S. (1978) Effect of passive smoking on angina pectoris. N. Engl. J. Med. 299: 21-24.

Arundel, A. V.; Sterling, E. M.; Biggin, J. H.; Sterling, T. D. (1986) Indirect health effects of relative humidity in indoor environments. EHP Environ. Health Perspect. 65: 351-361.

Arundel, A.; Sterling, T. D.; Collett, C. W.; Nantel, A. J. (1986) Results of a mailed questionnaire study on the health effects of UFFI. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-68.8.

Atwater, M. A.; Yocom, J. E.; Murray, D. R. (1986) A comparison of materials on single family houses in three cities for estimating quantities of material exposed to air pollution. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-85.10.

Aurand, K.; Seifert, B.; Wegner, J., eds. (1982) Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

Aurand, K.; von Nieding, G. (1982) MIK- und MAK-Werte und ihre Bedeutung zur Bewertung von Innenraumsituationen [MIK and MAK values and their significance in the evaluation of indoor situations]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 1-10. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

Auxier, J. A. (1976) Respiratory exposure in buildings due to radon progeny. Health Phys. 31: 119-125.

Axelson, O. (n.d.) On the effects of exposure to radon daughters in metal mines and in homes. In: Castellani, A., ed. Epidemiology and quantitation of environmental risk in humans from radiation and other agents. Casaccia, Rome, Italy: ENEA, Energy Research Center. New York, NY: Plenum Press; pp. 399-411.

Axelson, O.; Edling, C.; Kling, H. (1979) Lung cancer and residency - a case-referent study on the possible impact of exposure to radon and its daughters in dwellings. Scand. J. Work Environ. Health 5: 10-15.

Ayres, S. M.; Webb, K. B.; Evans, R. G.; Mikes, J. (1985) Is 2,3,7,8-TCDD (dioxin) a carcinogen for humans? EHP Environ. Health Perspect. 62: 329-335.

Bach, B.; Molhave, L.; Pedersen, O. F. (1984) Human reactions during controlled exposures to low concentrations of organic gases and vapors known as normal indoor air pollutants. performance tests. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 397-402.

Baechler, M. C.; Love, R. L. (1986) Indoor air quality research at Bonneville Power Administration. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-11.6.

Baer, N. S.; Banks, P. N. (1984) Indoor air pollution: effects on cultural and historic materials. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-83.4.

Baer, N. S.; Banks, P. N. (1985) Particulate standards for museums, libraries, and archives. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-8.8.

Baer, N. S.; Banks, P. N. (1985) Indoor air pollution: effects on cultural and historic materials. Int. J. Museum Manage. Curatorship 4: 9-20.

Baer, N. S.; Berman, S. M. (1985) An evaluation of the statistical significance of Hudson's acidity data for 17th & 18th century books in two libraries. Restaurator: Int. J. Preserv. Librar. Arch. Mater.: submitted.

Bale, W. F. (1980) Memorandum to the files, March 14, 1951: hazards associated with radon and thoron. Health Phys. 38: 1061-1066.

Baltensperger, U. (1986) Source apportionment for airbourne particulate matter in Zurich by chemical and morphological methods. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-25.7.

Balter, N. J.; Schwartz, S. L.; Kilpatrick, S. J.; Witorsch, P. (1986) Causal relationship between environmental tobacco smoke and lung cancer in non-smokers: a critical review of the literature. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-80.9.

Bandi, F.; Khan, A.; Phillips, C. R. (n.d.) Effects of aerosol polydispersity on theoretical calculation of unattached fractions of radon progeny.

- Banhidi, L.; Besnyo, J.; Somogyi, A.; Kintses, G. (1985) About a special question of local discomfort effect of draught. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 47-52.
- Banhidi, L.; Somogyi, A.; Kintses, G.; Besnyo, J. (1985) About local discomfort effects caused by asymmetric radiation occurring during winter in dwelling houses. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 165-170.
- Barrow, C. S.; Steinhagen, W. S. (1981) Sensory irritation by inhaled formaldehyde in B6C3F1 mice and F-344 rats following single or repeated exposure. *Toxicologist* 1: 5-6.
- Battaglia, A.; Bazzano, E.; Carioni, T. (1984) Indoor dose in Milan. *Radiat. Prot. Dosim.* 7: 283-285.
- Bauer, M. A.; Utell, M. J.; Morrow, P. E.; Speers, D. M.; Gibb, F. R. (1984) 0.30 ppm nitrogen dioxide inhalation potentiates exercise-induced bronchospasm in asthmatics. *Am. Rev. Respir. Dis.* 129: A151.
- Bauer, M. A.; Utell, M. J.; Morrow, P. E.; Speers, D. M.; Gibb, F. R. (1986) Inhalation of 0.30 ppm nitrogen dioxide potentiates exercise-induced bronchospasm in asthmatics. *Am. Rev. Respir. Dis.* 134: 1203-1208.
- Bauer, X.; Fruhmann, G. (1981) Specific IgE antibodies in patients with isocyanate asthma. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. *Chest* 80: 73S-76S.
- Bayer, C. W.; Black, M. S. (1986) Passive smoking: survey analysis of office smoking areas vs. environmental chamber studies. In: Proceedings of the ASHRAE conference IAQ '86; managing
- Beall, J. R.; Ulsamer, A. G. (1981) Toxicity of volatile organic compounds present indoors. In: Symposium on health aspects of indoor air pollution; May; New York, NY. *Bull. N. Y. Acad. Med.* 57: 978-996.
- Bean, J. D.; Isaacson, P.; Hahne, R. M. A.; Kohler, J. (1982) Drinking water and cancer incidence in Iowa. II. Radioactivity in drinking water. *Am. J. Epidemiol.* 116: 924-932.
- Becker, K. H.; Reineking, A.; Scheibel, H. G.; Porstendoerfer, J. (1984) Radon daughter activity size distributions. *Radiat. Prot. Dosim.* 7: 147-150.
- Becklake, M. R. (1981) Conference summary. In: Zwillich, C. W.; Cherniak, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. *Chest* 80: 89S-95S.

- Begin, R.; Masse, S.; Sebastien, P.; Bosse, J.; Rola-Pleszczynski, M.; Boctor, M.; Cote, Y.; Fabi, D.; Dalle, D. (1986) Asbestos exposure and retention as determinants of airway disease and asbestos alveolitis. Am. Rev. Respir. Dis. 134: 1176-1181.
- Bellinger, H. (1982) Anwendung von Desinfektionsmitteln in Innenraeumen (Krankenhaus, Gewerbe, Wohnraum) [Use of disinfectants in indoor environments (hospitals, trades and industry, living areas)]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 327-330. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Beloin, N. J. (1972) A field study: fading of dyed fabrics by air pollution. Text. Chem. Color. 4: 77-82.
- Beloin, N. J. (1973) A chamber study: fading of dyed fabrics exposed to air pollutants. Text. Chem. Color. 5: 128-133.
- Beloin, N. J.; Haynie, F. H. (1975) Soiling of building materials. J. Air Pollut. Control Assoc. 25: 399-403.
- Benard, J. M. (1986) Building-associated illnesses in an office environment. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 44-52.
- Benson, F. B.; Henderson, J. J.; Caldwell, D. E. (1972) Indoor-outdoor air pollution relationships: a literature review. Research Triangle Park, NC: U. S. Environmental Protection Agency, National Environmental Research Center; EPA publication no. AP-112. Available from: NTIS, Springfield, VA; PB-214102.
- Berg-Munch, B.; Clausen, G.; Fanger, P. O. (1986) Ventilation requirements for the control of body odor in spaces occupied by women. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 195-199.
- Berg-Munch, B.; Fanger, P. O. (1982) The influence of air temperature on the perception of body odor. Environ. Int. 8: 333-335.
- Berger, X.; Deval, J. C.; Grivel, F. (1985) About thermal comfort in humid tropical climates. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 85-90.
- Berglund, B. T.; Lindvall, T.; Sundell, J., eds. (1984) Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research.

- Berglund, B.; Berglund, U.; Lindvall, T.; Nicander-Bredberg, H. (1982) Olfactory and chemical characterization of indoor air. Towards a psychophysical model for air quality. *Environ. Int.* 8: 327-332.
- Berglund, B.; Berglund, U.; Hogman, L.; Johansson, I.; Lindvall, T. (1985) Measurement of formaldehyde odor indoors. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 251-257.
- Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J. (1986) Editorial: indoor air quality. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 1-2.
- Berglund, B.; Berglund, U.; Johansson, I.; Lindvall, T. (1986) Research equipment for sensory air quality studies of nonindustrial environments. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 189-194.
- Berglund, B.; Berglund, U.; Lindvall, T. (1986) Assessment of discomfort and irritation from the indoor air. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 138-149.
- Berglund, B.; Johansson, I.; Lindvall, T. (1982) The influence of ventilation on indoor/outdoor air contaminants in an office building. *Environ. Int.* 8: 395-399.
- Berglund, B.; Johansson, I.; Lindvall, T. (1982) A longitudinal study of air contaminants in a newly built preschool. *Environ. Int.* 8: 111-115.
- Berglund, B.; Lindvall, T.; Sundell, J., eds. (1984) Indoor air: proceedings of the 3rd international conference on indoor air quality and climate , v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research.
- Berglund, B.; Lindvall, T.; Sundell, J., eds. (1984) Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research. Available from: NTIS, Springfield, VA; PB85-104206.
- Berglund, B.; Lindvall, T.; Sundell, J., eds. (1984) Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 5, buildings, ventilation and thermal climate; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research. Available from: NTIS, Springfield, VA; PB85-104222.

- Berglund, B.; Lindvall, T. (1986) Sensory reactions to "sick buildings." In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 147-159.
- Bergman, H.; Edling, C.; Axelson, O. (1986) Indoor radon daughter concentrations and passive smoking. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 17-19.
- Berk, J. V.; Hollowell, C. D.; Lin, C. I.; Turiel, I. (1979) The effect of reduced ventilation on indoor air quality and energy use in schools. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-9382.
- Berk, J. V.; Hollowell, C. D.; Lin, C. I.; Turiel, I. (1979) The effects of energy efficient ventilation rates on indoor air quality at a California high school. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-9174.
- Berk, J. V.; Hollowell, C. D.; Pepper, J. H.; Young, R. (1980) Indoor air quality measurements in energy-efficient residential buildings. Berkeley, CA: Lawrence Berkeley California; report no. LBL-8894.
- Berk, J. V.; Hollowell, C. D.; Pepper, J. H.; Young, R. A. (1980) The impact of reduced ventilation on indoor air quality in residential buildings. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-10527.
- Berk, J. V.; Young, R. A.; Brown, S. R.; Hollowell, C. D. (1981) Impact of energy-conserving retrofits on indoor air quality in residential housing. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-12189.
- Berk, J. V.; Young, R.; Hollowell, C. D.; Turiel, I.; Pepper, J. (1980) The effects of energy-efficient ventilation rates on indoor air quality at an Ohio elementary school. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-10223.
- Berkey, C. S.; Ware, J. H.; Dockery, D. W.; Ferris, B. G., Jr.; Speizer, F. E. (1986) Indoor air pollution and pulmonary function growth in preadolescent children. Am. J. Epidemiol. 123: 250-260.
- Berwick, M.; Zagraniski, R. T.; Leaderer, B. P.; Stolwijk, J. A. J. (1984) Respiratory illness in children exposed to unvented combustion sources. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 255-260.
- Bianchi, R.; Cellai, G.; Rocco, L. (1985) Energy saving and thermal comfort. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 147-152.

- Bickel, A.; Day, S.; Thompson, B. (1986) Real-time determination of carbon dioxide and carbon monoxide in diagnosing indoor air quality problems. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 258-263.
- Bigu, J. (1983) On the effect of a negative ion-generator and a mixing fan on the plate-out of radon decay products in a radon box. *Health Phys.* 44: 259-266.
- Bigu, J. (1986) On the plate-out of radon and thoron progeny on large surfaces. Presented at: 191st national meeting of the American Chemical Society; April; New York, NY. Washington, DC: American Chemical Society; Canadian: Mineral and Energy Technology Mining Research Laboratories division report M&ET/MRL 86- (OP,J).
- Billick, I.; Johnson, D.; Moschandreas, D.; Relwani, S. (1984) An investigation of operational factors that influence emission rates from gas appliances. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 181-188. Available from: NTIS, Springfield, VA; PB85-104214.
- Billings, C. E.; Vanderslice, S. F. (1982) Methods for control of indoor air quality. *Environ. Int.* 8: 497-504.
- Binder, R. E.; Mitchell, C. A.; Hosein, H. R.; Bouhuys, A. (1976) Importance of the indoor environment in air pollution exposure. *Arch. Environ. Health* 31: 277-279.
- Binder, S. D.; Sokal, D.; Maughn, D. (1986) Estimating the amount of soil ingested by young children through tracer elements. In: East Helena, Montana child lead study, summer, 1983. Helena, MT: Montana Department of Health and Environmental Sciences; app. 23.
- Birky, M. M.; Clarke, F. B. (1981) Inhalation of toxic products from fires. In: Symposium on health aspects of indoor air pollution; May; New York, NY. *Bull. N. Y. Acad. Med.* 57: 997-1013.
- Bischof, W.; Banhidi, L. (1985) Einfluss zirkadianer Schwankungen der Körpertemperatur auf subjektive, psychologische und physiologische Messgroessen des Menschen [The effect of circadian fluctuations of body temperature on subjective, psychological and physiological parameters in humans]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 65-70.
- Bisgaard, P.; Molhave, L.; Rietz, B.; Wilhardt, P. (1983) Quantitative determination of formaldehyde in air using the acetylacetone method. *Anal. Lett.* 16: 1457-1468.

- Bisgaard, P.; Molhave, L.; Rietz, B.; Wilhardt, P. (1984) A method for personal sampling and analysis of nanogram amounts of formaldehyde in air. Am. Ind. Hyg. Assoc. J. 45: 425-429.
- Bishop, E. C.; Hossain, M. A. (1984) Field comparison between two nitrous oxide ( $N_2O$ ) passive monitors and conventional sampling methods. Am. Ind. Hyg. Assoc. J. 45: 812-816.
- Bitterman, P.; Rennard, S.; Schoenberger, C.; Crystal, R. (1981) Asbestos stimulates alveolar macrophages to release a factor causing human lung fibroblasts to replicate. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 38S-39S.
- Black, M. S.; Bayer, C. W. (1986) Formaldehyde and other VOC exposures from consumer products. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 454-468.
- Blackman, (1986) Presented at: Bioelectromagnetics Society annual meeting; June; abstract K-1, p. 36.
- Blackman, C. F.; Benane, S. G.; Joines, W. T. (1985) Effects of ELF (1-120 Hz) and modulated (50 Hz) RF fields on the efflux of calcium ions from brain tissue in vitro. Bioelectromagnetics 6: 1-11.
- Blackman, C. F.; Benane, S. G.; Rabinowitz, J. R.; House, D. E.; Joines, W. T. (1986) A role for the magnetic field in the radiation-induced efflux of calcium ions from brain tissue in vitro. Bioelectromagnetics 6: 327-337.
- Bladen, W. A. (1983) Relationship between acute respiratory illness and air pollution in an Indian industrial city. J. Air Pollut. Control Assoc. 33: 226-227.
- Blair, A.; Stewart, P.; O'Berg, M.; Gaffey, W.; Walrath, J.; Ward, J.; Bales, R.; Kaplan, S.; Cubit, D. (1986) Mortality among industrial workers exposed to formaldehyde. JNCI J. Natl. Cancer Inst. 76: 1071-1084.
- Blair, J. W.; Fenyves, E. J.; Edgar, R. T.; Rea, W. J. (1984) Measurement of organic air pollutants in environmental control units. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 291-294. Available from: NTIS, Springfield, VA; PB85-104214.
- Bland, M.; Bewley, B. R.; Pollard, V.; Banks, M. H. (1978) Effect of children's and parents' smoking on respiratory symptoms. Arch. Dis. Child. 53: 100-105.
- Block, S. S. (1953) Humidity requirements for mold growth. Appl. Microbiol. 1: 287-293.

Bocanegra, R.; Hopke, P. K. (n.d.) The feasibility of using activated charcoal for indoor radon control.

Bocanegra, R.; Hopke, P. K. (1986) Optimal parameters for the adsorption of radon on charcoal. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-81.8.

Bock, F. G. (1982) Nonsmokers and cigarette smoke: a modified perception of risk. Science (Washington, DC) 215: 197.

Bogaty, H.; Campbell, K. S.; Appel, W. D. (1952) The oxidation of cellulose by ozone in small concentrations. Text. Res. J. 22: 81-83.

Bohgaki, K. (1985) Effect of floor heating on man's comfort and thermal sensations. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 41-46.

Boholt, K. (1985) Air quality with use of make-up air. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 233-238.

Boice, J. D., Jr.; Fraumeni, J. J., Jr., eds. (1984) Radiation carcinogenesis. New York, NY: Raven Press.

Bois, J. M.; Blay, D.; Tuhault, J. L. (1985) Ventilation naturelle entre deux pieces d'habitat [Natural ventilation between two adjacent rooms]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 467-472.

Boivin, J.-F.; Wacholder, S. (1985) Conditions for confounding of the risk ratio and of the odds ratio. Am. J. Epidemiol. 121: 152-158.

Boleij, J. S. M.; Brunekreef, B.; Lebret, E.; Biersteker, K. (1982) Indoor NO<sub>x</sub> pollution. In: Schneider, T.; Grant, L., eds. Air pollution by nitrogen oxides. Amsterdam, The Netherlands: Elsevier Scientific Publishing Co.; pp. 225-233.

Boleij, J. S. M.; Lebret, E.; Hoek, F.; Noy, D.; Brunekreef, B. (1986) The use of Palmes diffusion tubes for measuring NO<sub>2</sub> in homes. Atmos. Environ. 20: 597-600.

Boleij, J.; Lebret, E.; Smit, J.; Brunekreef, B.; Biersteker, K. (1982) Innenluftverunreinigungen durch Kohlenmonoxid und Stickstoffoxide [Indoor air pollution by carbon monoxide and nitrogen oxides]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 199-208. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

- Bond, V. P. (1981) The cancer risk attributable to radiation exposure: some practical problems. *Health Phys.* 40: 108-111.
- Bondietti, E. A.; Papastefanou, C.; Rangarajan, C. (n.d.) Aerodynamic size associations of natural radioactivity with ambient aerosols. In: Radon and its decay products: occurrence, properties and health effects. Washington, DC: American Chemical Society; in press. (ACS symposium series).
- Booz, Allen and Hamilton, Inc. (1970) Study to determine residential soiling costs of particulate air pollution. Raleigh, NC: U. S. Department of Health, Education and Welfare, National Air Pollution Control Administration; EPA report no. APTD-0715. Available from: NTIS, Springfield, VA; PB-205807.
- Borak, T. B. (1986) Randomization of grab-sampling strategies for estimating the annual exposure of U miners to Rn daughters. *Health Phys.* 50: 465-472.
- Bornschein, R. L. (1985) Influence of social factors on lead exposure and child development. *EHP Environ. Health Perspect.* 62: 343-351.
- Bos, R. P.; Theuws, J. L. G.; Henderson, P. T. (1983) Excretion of mutagens in human urine after passive smoking. *Cancer Lett.* 19: 85-90.
- Bose, D. (1984) Preparation of low concentrations of gases without pumps - a low-cost method for developing countries. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 239-244. Available from: NTIS, Springfield, VA; PB85-104214.
- Bossus, D. A. W. (1984) Emanating power and specific surface area. *Radiat. Prot. Dosim.* 7: 73-76.
- Bourdillon, R. B.; Lidwell, O. M.; Lovelock, J. E.; Raymond, W. F. (1948) Airborne bacteria found in factories and other places: suggested limits of bacterial contamination. In: Bourdillon, R. B.; Lidwell, O. M.; Lovelock, J. E.; Cawston, W. C.; Colebrook, L.; Ellis, F. P.; Van den Ende, M.; Glover, R. E.; MacFarlan, A. M.; Miles, A. A.; Raymond, W. F.; Schuster, E.; Thomas, J. C., eds. Studies in air hygiene. London, United Kingdom: His Majesty's Stationery Office; pp. 257-263. (Medical Research Council special report series: no. 262).
- Bradley, R. A. (1986) Materials damage, acid deposition, and the NAPAP assessment. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-85.5.
- Bradow, F. V. P. (1982) Effects on materials. In: Air quality criteria for particulate matter and sulfur oxides: volume III. Research Triangle Park, NC: U. S. Environmental Protection Agency, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-82-029c.

- Bradow, F. V. P.; Lockhead, G. R.; Bradow, R. L. (1985) Implications of perception thresholds for soiling.
- Breysse, P. A. (1977) Formaldehyde in mobile and conventional homes. Seattle, WA: University of Washington, School of Public Health; Environmental Health and Safety News 25: 1-19.
- Breysse, P. A. (1978) Formaldehyde exposure following urea formaldehyde insulation. Seattle, WA: University of Washington, School of Public Health; Environmental Health and Safety News 26: 1-11.
- Breysse, P. A. (1980) Formaldehyde exposure in mobile homes: occupational safety and health symposia. Washington, DC: U. S. Department of Health and Human Services; pp. 80-139.
- Breysse, P. A. (1980) The environmental problems of urea-formaldehyde structures: formaldehyde exposure in mobile homes. Chicago, IL: U. S. Department of Health and Human Services; NIOSH publication no. 80-139. (Occupational safety and health symposia).
- Breysse, P. A. (1982) Indoor air problems - the office environment - a national epidemic. Seattle, WA: University of Washington, School of Public Health; Environmental Health and Safety News 25: 1-16.
- Brice, R. M.; Roesler, J. F. (1966) The exposure to carbon monoxide of occupants of vehicles moving in traffic. J. Air Pollut. Control Assoc. 16: 597-600.
- Bridge, D. P.; Corn, M. (1972) Contribution to the assessment of exposure of nonsmokers to air pollution from cigarette and cigar smoke in occupied spaces. Environ. Res. 5: 192-209.
- Brinton, L. A.; Blot, W. J.; Fraumeni, J. F., Jr. (1985) Nasal cancer in the textile and clothing industries. Br. J. Ind. Med. 42: 469-474.
- Brinton, L.; Becker, J.; Blot, W.; Hoover, R.; Fraumeni, J., Jr. (1983) A case-control study of cancer of the nasal cavity and sinuses. Am. J. Epidemiol. 118: 436-437.
- Brisk, M. A.; Turk, A. (1984) Control of indoor radon by activated carbon filters. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-35.3.
- Brits, R. J. N.; Van As, D. (1984) Methodology for the measurement of radon with passive instruments. Radiat. Prot. Dosim. 7: 219-221.
- Britt, E. J.; Shelhamer, J.; Menkes, H.; Cohen, B.; Meyer, M.; Permutt, S. (1981) Sex differences in the decline of pulmonary function with age. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 79S-80S.
- Brodsky, J. B.; Cohen, E. N.; Brown, B. W., Jr.; Wu, M. L.; Whitcher, C. E. (1981) Exposure to nitrous oxide and neurologic disease among dental professionals. Anesth. Analg. 60: 297-301.

- Brody, A. R.; Hill, L. H. (1981) Deposition pattern and clearance pathways of inhaled chrysotile asbestos. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 64S-67S.
- Brookins, D. G. (1986) Indoor and soil Rn measurements in the Albuquerque, New Mexico, area. Health Phys. 51: 529-533.
- Brooks, S. M.; Edwards, J. J., Jr.; Apol, A.; Edwards, F. H. (1981) An epidemiologic study of workers exposed to western red cedar and other wood dusts. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 30S-32S.
- Brown, K.; Dimbylow, P. J.; Wilkinson, P. (1984) Modelling indoor exposure to natural radiation. Radiat. Prot. Dosim. 7: 91-94.
- Brown, L.; Green, B. M. R.; Miles, J. C. H.; Wrixon, A. D. (1986) Radon exposure of the United Kingdom population. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 45-48.
- Brown, S. R.; Horn, L.; Grimsrud, D. T. (1986) A data base for microcomputers on field research in indoor air quality. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-5.5.
- Brundrett, G. W. (1979) Maintenance of spray humidifiers. Chester, United Kingdom: Electricity Council Research Centre; report no. ECRC/MI226.
- Brundrett, G. W.; Collins, J. B.; DaCosta, G. S.; Edwards, J. H.; Jones, W. P.; Newson, D. J.; Stone, R. J. (1981) Humidifier fever. Institution of Building Services 3: 35-36.
- Brunekreef, B.; Boleij, J. S. M. (1982) Long-term average suspended particulate concentrations in smokers' homes. Int. Arch. Occup. Environ. Health 50: 299-302.
- Brunekreef, B.; Boleij, J. S. M.; Hoek, F.; Lebret, E.; Noy, D. (1986) Variation of indoor nitrogen dioxide concentrations over a one-year period. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 279-282.
- Brunekreef, B.; Fischer, P.; Remijn, P.; van der Lende, R.; Schouten, J.; Quanjer, P. (1985) Indoor air pollution and its effect on pulmonary function of adult non-smoking women: III. Passive smoking and pulmonary function. Int. J. Epidemiol. 14: 227-230.

- Brunekreef, B.; Hoek, F. (1984) Seasonal variations of indoor nitrogen dioxide concentrations. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 355-360. Available from: NTIS, Springfield, VA; PB85-104214.
- Brunekreef, B.; Smit, H. A.; Biersteker, K.; Boleij, J. S. M.; Lebret, E. (1982) Indoor carbon monoxide pollution in the Netherlands. Environ. Int. 8: 193-196.
- Bruno, R. C. (1983) Sources of indoor radon in houses: a review. J. Air Pollut. Control Assoc. 33: 105-109.
- Bruno, R. C. (1983) Verifying a model of radon decay product behavior indoors. Health Phys. 45: 471-480.
- Buckley, J. D.; Harris, R. W. C.; Doll, R.; Vessey, M. P.; Williams, P. T. (1981) Case-control study of the husbands of women with dysplasia or carcinoma of the cervix uteri. Lancet (8254): 1010-1014.
- Budnitz, R. J. (1974) Radon-222 and its daughters - a review of instrumentation for occupational and environmental monitoring. Health Phys. 26: 145-163.
- Buist, A. S. (1981) Mt. St. Helens: are volcanoes hazardous to your health? In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 86S-87S.
- Bundy, B. M.; Tepordei, G. (n.d.) Health effects of indoor biological pollutants (airborne allergens and pathogens). Draft.
- Burbank, B.; Ozkaynak, H.; Spengler, J. D. (1986) Use of exposure estimates for ambient fine particles in community health studies: preliminary results. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-66.3.
- Burch, P. R. J. (1986) Health risks of passive smoking: problems of interpretation. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers form the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 23-28.
- Burchfiel, C. M., III. (1984) Passive smoking, respiratory symptoms, lung function and initiation of smoking in Tecumseh, Michigan [Ph. D. dissertation]. Detroit, MI: University of Michigan.
- Burg, W. R.; Shotwell, O. L.; Saltzman, B. E. (1981) Measurements of airborne aflatoxins during the handling of contaminated corn. Am. Ind. Hyg. Assoc. J. 42: 1-11.

- Burge, H. A. (1985) Indoor sources for airborne microbes. In: Gammage, R. B.; Kaye, S. V., eds. *Indoor air and human health: proceedings of the seventh life sciences symposium*; October 1984; Knoxville, TN. Chelsea, MI: Lewis Publishing, Inc.; pp. 139-148.
- Burge, H. A. (1986) Toxigenic potential of indoor microbial aerosols. Presented at: Fifth symposium on the application of short-term bioassays in the analysis of complex environmental mixtures; October; Durham, NC.
- Burge, H. A.; Solomon, W. R. (1987) Sampling and analysis of biological aerosols. In: *Symposium on the characterization of contaminant emissions from indoor sources*; Chapel Hill, NC. *Atmos. Environ.* 21: 451-456.
- Burge, H., et al. (1977) Comparative recoveries of airborne fungus spores by viable and non-viable modes of volumetric collection. *Mycopathology* 61: 27-33.
- Burkart, W. (1986) An estimation of radiation exposure and risk from airtightening of homes in an alpine area with elevated radon source strength. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate*; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 49-53.
- Burkart, W.; Chakraborty, S. (1984) Possible health effects of energy conservation: impairment of indoor air quality due to reduction of ventilation rate. *Environ. Int.* 10: 455-461.
- Burkart, W.; Wernli, C.; Brunner, H. H. (1984) Matched pair analysis of the influence of weather-stripping on indoor radon concentration in Swiss dwellings. *Radiat. Prot. Dosim.* 7: 299-302.
- Busigin, A.; Nathwani, J. S.; Phillips, C. R. (1979) Attenuation of radon flux from uranium mill tailings by consolidation. *Health Phys.* 36: 393-399.
- Busigin, A.; Phillips, C. R. (1980) Uncertainties in the measurement of airborne radon daughters. *Health Phys.* 39: 943-955.
- Busigin, A.; Van der Vooren, A. W.; Phillips, C. R. (1979) Interpretation of the response of continuous radon monitors to transient radon concentrations. *Health Phys.* 37: 659-667.
- Busuoli, G.; Lembo, L.; Nanni, R.; Sermenghi, I. (1984) Indoor gamma exposure measurements in Italy. *Radiat. Prot. Dosim.* 7: 313-316.
- Butler, C.; Samet, J. M.; Black, W. C. (1986) Histopathologic findings of lung cancer in Navajo men: relationship to U mining. *Health Phys.* 51: 365-368.
- Butler, J.; Culver, B. H.; Robertson, H. T. (1981) Meat wrappers' asthma. In: Zwillich, C. W.; Cherniack, R. M., eds. *The 23rd Aspen lung conference: the environment and the lung*; June 1980; Aspen, CO. *Chest* 80: 71S-73S.
- Bylin, G.; Lindvall, T.; Rehn, T.; Sundin, B. (1985) Effects of short-term exposure to ambient nitrogen dioxide concentrations on human bronchial reactivity and lung function. *Eur. J. Respir. Dis.* 66: 205-217.

- Cain, W. S.; Leaderer, B. P. (1982) Ventilation requirements in occupied spaces during smoking and nonsmoking occupancy. *Environ. Int.* 8: 505-514.
- Cain, W. S.; Leaderer, B. P.; Isseroff, R.; Berglund, L. G.; Huey, R. J.; Lipsitt, E. D.; Perlman, D. (1983) Ventilation requirements in buildings - I. Control of occupancy odor and tobacco smoke odor. *Atmos. Environ.* 17: 1183-1197.
- Cain, W. S.; See, L. C.; Tosun, T. (1986) Irritation and odor from formaldehyde: chamber studies. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*: April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 126-137.
- Cain, W. S.; Tosun, T.; See, L.-C.; Leaderer, B. (1987) Environmental tobacco smoke: sensory reactions of occupants. In: *Symposium on the characterization of contaminant emissions from indoor sources*; Chapel Hill, NC. *Atmos. Environ.* 21: 347-353.
- Calle, E. E.; Zeighami, E. A. (1985) Health risk assessment of residential wood combustion. In: Walsh, P. J.; Dudney, C. S.; Copenhaver, E. D., eds. *Indoor air quality*. Boca Raton, FL: CRC Press, Inc.; pp. 39-53.
- Calverley, P. M. A.; Leggett, R. J. E.; Flenley, D. C. (1981) Carbon monoxide and exercise tolerance in chronic bronchitis and emphysema. *Br. Med. J.* 283: 878-880.
- Canadian Federal-Provincial Advisory Committee on Environmental and Occupational Health. (1986) *Exposure guidelines for residential indoor air quality (excluding radon)*. Ottawa, Canada: Environmental Health Directorate, Health Protection Branch. Available from: Public Affairs Directorate, Department of National Health and Welfare, Ottawa, Canada.
- Canadian Paediatric Society. (1986) Secondhand cigarette smoke worsens symptoms in children with asthma. *Can. Med. Assoc. J.* 135: 321-322.
- Carcinogenesis Testing Program, Division of Cancer Cause and Prevention, National Cancer Institute. (1979) Bioassay of phthalic anhydride for possible carcinogenicity. Bethesda, MD: National Cancer Institute, Division of Cancer Cause and Prevention; report no. (NIH) 79-1715. Available from: NTIS, Springfield, VA; PB-293594.
- Carey, W. F. (1959) Atmospheric deposits in Britain - a study of dinginess. *Int. J. Air Pollut.* 2: 1-26.
- Carroll, K. B.; Secombe, C. J. P.; Pepys, J. (1976) Asthma due to non-occupational exposure to toluene (tolylene) di-isocyanate. *Clin. Allergy* 6: 99-104.
- Castle, S. P.; Lapham, S. C.; Troutman, W. G.; Manges, B. (1984) Carbon monoxide intoxication: diagnostic considerations [letter to the editor]. *JAMA J. Am. Med. Assoc.* 251: 2350.

- Castren, O.; Winqvist, K.; Maekelaeinen, I.; Voutilainen, A. (1984) Radon measurements in Finnish houses. *Radiat. Prot. Dosim.* 7: 333-336.
- Chameaud, J.; Masse, R.; Lafuma, J. (1984) Influence of radon daughter exposure at low doses on occurrence of lung cancer in rats. *Radiat. Prot. Dosim.* 7: 385-388.
- Chan, W. C.; Colbourne, M. J.; Fung, S. C.; Ho, H. C. (1979) Bronchial cancer in Hong Kong 1976-1977. *Br. J. Cancer* 39: 182-192.
- Chan, W. C.; Fung, S. C. (1982) Lung cancer in non-smokers in Hong Kong. In: Grundmann, E., ed. *Cancer campaign, v. 6, geographical pathology in cancer epidemiology*. Stuttgart, West Germany: Gustav Fischer Verlag; pp. 199-202.
- Chaney, S.; Blomquist, W.; DeWitt, P.; Muller, K. (1981) Biochemical changes in humans upon exposure to nitrogen dioxide while at rest. *Arch. Environ. Health* 36: 53-58.
- Chang, J. C. F.; Steinhagen, W. H.; Barrow, C. S. (1981) Effect of single or repeated formaldehyde exposure on minute volume of B6C3F1 mice and F-344 rats. *Toxicol. Appl. Pharmacol.* 61: 451-459.
- Chapman, R. S.; Calafiore, D. C.; Hasselblad, V. (1985) Prevalence of persistent cough and phlegm in young adults in relation to long-term ambient sulfur oxide exposure. *Am. Rev. Respir. Dis.* 132: 261-267.
- Chapman, R.; Mumford, J. (1985) Short proposal to measure radon exposures in Xuan Wei County, Yunnan Province, China. Research Triangle Park, NC: U. S. Environmental Protection Agency, Health Effects Research Laboratory.
- Charlton, A. (1984) Children's coughs related to parental smoking. *Br. Med. J.* 288: 1647-1649.
- Chatigny, M. A. (n.d.) Sampling airborne microorganisms. *Air Sampling Instrument* pp. E-2 -E-9.
- Chatigny, M. A.; Wolochow, H.; Hinton, D. O. (n.d.) Sampling aeroallergens. pp. F-1 - F-5.
- Chen, Y.; Li, W.; Yu, S. (1986) Influence of passive smoking on admissions for respiratory illness in early childhood. *Br. Med. J.* 293: 303-306.
- Cheng, M.-D.; Hopke, P. K. (1986) A detailed study of NBS simulated data sets by using chemical mass balance receptor models I: source selection. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-25.1.
- Choi, H. S. (1983) Delayed neurologic sequelae in carbon monoxide intoxication. *Arch. Neurol.* 40: 433-435.

- Christensen, C. M. (1975) Airborne fungus spores, plant disease, and respiratory allergy. In: *Molds, mushrooms, and mycotoxins*. Minneapolis, MN: University of Minnesota Press; pp. 114-252.
- Chruscielewski, W.; Domanski, T.; Orzechowski, W. (1983) Concentrations of radon and its progeny in the rooms of Polish spas. *Health Phys.* 45: 421-424.
- Chu, K. D.; Hopke, P. K.; Knutson, E. O.; Tu, K. W.; Holub, R. F. (n.d.) The induction of an ultrafine aerosol by radon radiolysis. Denver, CO:
- Chu, K.-D.; Hopke, P. K. (1985) Continuous monitoring method of the neutralization phenomena of polonium-218. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-85.5.
- Chu, K.-D.; Hopke, P. K. (1986) Continuous monitoring method in the neutralization rate analysis of polonium-218. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-81.10.
- Chuang, J. C.; Hannan, S. W.; Wilson, N. K. (1987) *Environ. Sci. Technol.* 21: in press.
- Chuang, J. C.; Mack, G. A.; Koetz, J. R.; Petersen, B. A. (1987) Project report. U. S. Environmental Protection Agency; EPA report no. EPA-600/2-87-
- Clark, R. P. (1982) Containment facilities for pathological material. *Environ. Int.* 8: 387-394.
- Clarke, F. B.; Birk, M. M. (1981) Fire safety in dwellings and public buildings. In: *Symposium on health aspects of indoor air pollution*; May; New York, NY. *Bull. N. Y. Acad. Med.* 57: 1047-1060.
- Clarkson, S. G.; Tom, B. L.; Babcock, A. J.; Mehkeri, K. A. (1984) Results of testing unventilated kerosene heaters in a house: gas emissions, surface temperatures and fuel consumption rates. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association.
- Clary, J. J.; Gibson, J. E.; Waritz, R. S. (1982) *Formaldehyde: toxicology, epidemiology, mechanisms*. New York, NY: Marcel Dekker, Inc.
- Clausen, G. H.; Fanger, P. O.; Cain, W. S.; Leaderer, B. P. (1985) The influence of aging, particle filtration and humidity on tobacco smoke odor. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August, Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 345-350.

- Clausen, G. H.; Fanger, P. O.; Cain, W. S.; Leaderer, B. P. (1986) Stability of body odor in enclosed spaces. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 201-205.
- Clausen, G. H.; Moller, S.; Fanger, P. O.; Leaderer, B. P.; Dietz, R. (1986) Background odor caused by previous tobacco smoking. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 119-125.
- Clausing, P.; Mak, J. K.; Spengler, J. D.; Letz, R. (1984) Personal NO<sub>2</sub> exposures of high school students. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 135-139. Available from: NTIS, Springfield, VA; PB85-104214.
- Clausing, P.; Mak, J. M.; Spengler, J. D.; Letz, R. (1986) Personal NO<sub>2</sub> exposure of high school students. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 413-417.
- Clemente, G. F.; O'Riordan, M. C.; Sinnaeve, J., eds. (1984) Indoor exposure to natural radiation and related risk assessment. Proceedings of an international seminar; October 1983; Anacapri, Italy. Radiat. Prot. Dosim. 7: 3-13.
- Clements, W. E.; Wilkening, M. H. (1974) Atmospheric pressure effects on <sup>222</sup>Rn transport across the earth-air interface. JGR J. Geophys. Res. 79: 5025-5029.
- Cliff, K. D.; Wrixon, A. D.; Green, B. M. R.; Miles, J. C. H. (1983) Radon daughter exposures in the U.K. Health Phys. 45: 323-330.
- Cloutier, R. J. (1980) Florence Kelley and the radium dial painters. Health Phys. 39: 711-716.
- Cohen, A. F.; Cohen, B. L. (1980) Protection from being indoors against inhalation of suspended matter of outdoor origin. Atmos. Environ. 14: 183-184.
- Cohen, B. L. (n.d.) Comparison of track-etch and DBCA methods for measurement of radon levels in indoor air. Health Phys.: in press.
- Cohen, B. L. (1979) The BEIR Report relative risk and absolute risk models for estimating effects of low level radiation. Health Phys. 37: 509-516.
- Cohen, B. L. (1980) Health effects of radon from insulation of buildings. Health Phys. 39: 937-941.

- Cohen, B. L. (1980) The cancer risk from low-level radiation. *Health Phys.* 39: 659-678.
- Cohen, B. L. (1981) The role of radon in comparisons of effects of radioactivity releases from nuclear power, coal burning and phosphate mining. *Health Phys.* 40: 19-25.
- Cohen, B. L. (1982) Health effects of radon emissions from uranium mill tailings. *Health Phys.* 42: 695-702.
- Cohen, B. L. (1985) Survey of one-year average Rn levels in Pittsburgh area homes. *Health Phys.* 49: 1053-1059.
- Cohen, B. L. (1986) Comparison of nuclear track and diffusion barrier charcoal adsorption methods for measurement of  $^{222}\text{Rn}$  levels in indoor air. *Health Phys.* 50: 828-829.
- Cohen, B. L. (1986) A national survey of  $^{222}\text{Rn}$  in U. S. homes and correlating factors. *Health Phys.* 51: 175-183.
- Cohen, B. L.; Cohen, E. S. (1983) Theory and practice of radon monitoring with charcoal adsorption. *Health Phys.* 45: 501-508.
- Cohen, B. L.; Kulwicki, D. R.; Warner, K. R., Jr.; Grassi, C. L. (1984) Radon concentrations inside public and commercial buildings in the Pittsburgh area. *Health Phys.* 47: 399-405.
- Cohen, B. L.; Nason, R. (1986) A diffusion barrier charcoal adsorption collector for measuring Rn concentrations in indoor air. *Health Phys.* 50: 457-463.
- Cohen, B. L.; Nason, R. (1986) Radon chamber for calibration of charcoal detectors. *Health Phys.* 51: 135-137.
- Cohen, B. L.; Rakowski, J.; Nason, R. (1986) A simple compact apparatus for measuring diffusion properties of Rn through soils and other materials. *Health Phys.* 50: 133-137.
- Cohen, B. S. (n.d.) Deposition of ultrafine particles in the human tracheobronchial tree: a determinant of the dose from radon daughters. New York, NY: Institute of Environmental Medicine; New York University Medical Center [unpublished paper].
- Cohen, S. I.; Deane, M.; Goldsmith, J. R. (1969) Carbon monoxide and survival from myocardial infarction. *Arch. Environ. Health* 19: 510-517.
- Cole, P.; Goldman, M. B. (1975) Occupation. In: Fraumeni, J. F., Jr., ed. Persons at high risk of cancer: an approach to cancer etiology and control: proceedings of a conference; December 1974; Key Biscayne, FL. New York, NY: Academic Press; pp. 167-184.
- Colle, R., et al. (1981) Radon transport through and exhalation from building materials. U. S. Department of Commerce, National Bureau of Standards; NBS technical no. 1139.

- Colley, J. R. T. (1974) Respiratory symptoms in children and parental smoking and phlegm production. Br. Med. J. 2: 201-204.
- Colley, J. R. T.; Holland, W. W.; Corkhill, R. T. (1974) Influence of passive smoking and parental phlegm on pneumonia and bronchitis in early childhood. Lancet: 1031-1034.
- Colligan, M. J. (1981) The psychological effects of indoor air pollution. In: Symposium on health aspects of indoor air pollution; May; New York, NY. Bull. N. Y. Acad. Med. 57: 1014-1026.
- Collins, M. F. (1986) Characterization of the LTC catalyst: performance against common air pollutants. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-43.3.
- Collishaw, N. E.; Kirkbride, J.; Wigle, D. T. (1984) Tobacco smoke in the workplace: an occupational health hazard. Can. Med. Assoc. J. 131: 1199-1204.
- Colome, S. D.; Freight, M.; Turner, W.; Miller, D. (1983) Investigation of indoor residential air quality in southern California mobile homes. In: Proceedings of the 78th annual meeting of the Air Pollution Control Association; June; Atlanta, GA. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-31.5.
- Colome, S. D.; Lambert, W. E.; Castenada, N. (1985) Survey of nitrogen dioxide, carbon monoxide and ventilation in residences of patients with ischemic heart disease. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-31.5.
- Colome, S. D.; Spengler, J. D.; McCarthy, S. (1982) Comparison of elements and inorganic compounds inside and outside of residences. Environ. Int. 8: 197-212.
- Colwill, D. M.; Hickman, A. J. (1980) Exposure of drivers to carbon monoxide. J. Air Pollut. Control Assoc. 30: 1316-1319.
- Commission on California State Government Organization and Economy. (1985) Control of pesticide residues in food products: a review of the California program of pesticide regulation. Sacramento, CA: TROUBLESHOOTERS, Policy Analysis Consultants.
- Committee on Indoor Pollutants. (1981) Indoor pollutants. Washington DC: National Research Council, Board on Toxicology and Environmental Health Hazards; National Academy Press.
- Committee on the Biological Effects of Ionizing Radiations. (1980) The effects on populations of exposure to low levels of ionizing radiation: 1980. Washington, DC: National Academy Press.
- Comptroller General of the United States. (1980) Indoor air pollution: an emerging health problem [report to Congress, September 24]. Washington, DC: U. S. General Accounting Office; CED-80-111.

- Comstock, G. W.; Meyer, M. B.; Helsing, K. J.; Tockman, M. S. (1981) Respiratory effects of household exposures to tobacco smoke and gas cooking. *Am. Rev. Respir. Dis.* 124: 143-148.
- Consensus Workshop on Formaldehyde. (1984) Report on the Consensus Workshop on Formaldehyde. *EHP Environ. Health Perspect.* 58: 323-381.
- Consumer Products Safety Commission. (1983) Summary report on testing of 17 kerosene heaters associated with consumer incidents. Engineering Laboratory, Directorate for Engineering Sciences; ES DOC #543968.
- Cooper, K. R.; Alberti, R. R. (1984) Effect of kerosene heater emissions on indoor air quality and pulmonary function. *Am. Rev. Respir. Dis.* 129: 629-631.
- Correa, P.; Fontham, E.; Pickle, L. W.; Lin, Y.; Haenszel, W. (1983) Passive smoking and lung cancer. *Lancet* (8350): 595-597.
- Corsi, R. L.; Allen, P. D. (1986) Post-application pesticide volatilization and transport. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-66.6.
- Cortesi, R.; Needleman, H. L., moderators. (1985) Discussion summary: potential hazards related to other nonoccupational exposures. *EHP Environ. Health Perspect.* 62: 353-361.
- Cote, P.; Townsend, M. G. (1981) Mixtures of radon and thoron daughters in underground atmospheres. *Health Phys.* 40: 5-17.
- Cothorn, C. R. (1981) Radioactivity in drinking water. Washington, DC: U. S. Environmental Protection Agency, Office of Drinking Water; EPA report no. EPA-570/9-81-002. Available from: NTIS, Springfield, VA; PB81-192833.
- Cothorn, C. R. (1986) Radon in drinking water. *Am. Water Works Assoc. J.* (May).
- Cothorn, C. R.; Lappenbusch, W. L.; Michel, J. (1986) Drinking-water contribution to natural background radiation. *Health Phys.* 50: 33-47.
- Cothorn, C. R.; Lappenbusch, W. L.; Michel, J. (1986) Method for the propagation of uncertainty and risk and effective dose equivalent calculations for Rn [appendices B and C erroneously omitted from *Health Phys.* 50: 33-47]. *Health Phys.* 51: 395.
- Couch, R. B. (1981) Viruses and indoor air pollution. *Bull. N. Y. Acad. Med.* 57: 907-921.
- Coutant, R. W.; Brown, L.; Chuang, J. C.; Riggin, R. M.; Lewis, R. G. (1987) Phase distribution and artifact formation in ambient air sampling for polynuclear aromatic hydrocarbon. *Atmos. Environ.* 21: in press.
- Coutant, R. W.; Lewis, R. G.; Mulik, J. (1985) Passive sampling devices with reversible adsorption. *Anal. Chem.* 57: 219-223.

- Coutant, R. W.; Lewis, R. G.; Mulik, J. D. (1986) Modification and evaluation of a thermally desorbable passive sampler for volatile organic compounds in air. *Anal. Chem.* 58: 445-448.
- Coutant, R. W.; Merryman, E. L.; Levy, A. (1982) Formation of NO<sub>2</sub> in range-top burners. *Environ. Int.* 185-192.
- Coviaux, F.; Mouilleseaux, A.; Festy, B.; Thibaut, G.; Geronimi, J.-L.; Viellard, H. (1984) Air quality and biological controls of workers exposed in working premises contiguous to an urban road-tunnel. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden*. Stockholm, Sweden: Swedish Council for Building Research; pp. 129-134. Available from: NTIS, Springfield, VA; PB85-104214.
- Cowan, J. D. (1986) Implications of providing required outside air quantities in office buildings. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA*. Atlanta, GA: American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.; pp. 318-332.
- Cox, B. D.; Whichelow, M. Y. (1985) Carbon monoxide levels in the breath of smokers and nonsmokers: effects of domestic heating systems. *J. Epidemiol. Commun. Health* 39: 75-78.
- Cox, B. G.; DeWitt, D. S.; Whitmore, R. W.; Singletary, H. M.; Howard, C. E.; Starner, K. K. (1985) A survey design for a national study of indoor radon concentrations in residential dwellings. Research Triangle Park, NC: Exposure Monitoring System Laboratory; EPA contract no. 68-01-6826. Available from: NTIS, Springfield, VA;
- Craig, A. B. (1986) Radon diagnosis and abatement in residential dwellings. Presented at: Radiological health conference; October; New Castle, DE.
- Crawford, D. J. (1981) The radiological impact of <sup>219</sup>Rn and its effect on <sup>222</sup>Rn risk assessment. *Health Phys.* 41: 165-171.
- Cross, C. E.; Hesterberg, T. W.; Reiser, K. M.; Last, J. A. (1981) Ozone toxicity as a model of lung fibrosis. In: Zwillich, C. W.; Cherniak, R. M., eds. *The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO*. *Chest* 80: 52S-54S.
- Cross, F. T.; Palmer, R. F.; Dagle, G. E.; Busch, R. H.; Buschbom, R. L. (1984) Influence of radon daughter exposure rate, unattachment fraction, and disequilibrium on occurrence of lung tumours. *Radiat. Prot. Dosim.* 7: 381-384.
- Crum, J. M. (1986) Indoor air pollution source database. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-52.6.

- Crum, J. M. (1986) Source emissions database for indoor air pollution. Presented at: EPA/APCA symposium of measurements of toxic air pollutants; April; Raleigh, NC. EPA report no. EPA-600/9-86-013.
- Crystal, R. G.; Rennard, S. I. (1981) Pulmonary connective tissue and environmental lung disease. In: Zwillich, C. W.; Cherniak, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 33S-38S.
- Culot, M. V. J.; Olson, H. G.; Schiager, K. J. (1973) Radon progeny control in buildings. Fort Collins, CO: Colorado State University; C00-2273-1.
- Culot, M. V. J.; Schiager, K. J.; Olson, H. G. (1978) Development of a radon barrier. Health Phys. 35: 375-380.
- Cummins, J. D. (1986) Indoor air quality through air purification. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; p. 591.
- Cunningham, D. J.; Berglund, L. G.; Fobelets, A. (1985) Skin wettedness under clothing and its relationship to thermal comfort in men and women. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 91-96.
- Cvitas, T.; Guesten, H.; Heinrich, G.; Klasinc, L.; Lalas, D. P.; Petrakis, M. (1985) Characteristics of air pollution during the summer in Athens, Greece. Staub Reinhalt. Luft 45: 297-301.
- D'Andrea, J. A.; DeWitt, J. R.; Gandhi, O. P.; Stensaas, S.; Lords, J. L.; Nielson, H. C. (1986) Behavioral and physiological effects of chronic 2,450-MHz microwave irradiation of the rat at 0.5 mW/cm<sup>2</sup>. Bioelectromagnetics 7: 45-56.
- D'Ottavio, T. W.; Dietz, R. N. (1986) Radon transport into a detached one-story house with a basement. Atmos. Environ. 20: 1065-1069.
- Dalager, N. A.; Pickle, L. W.; Mason, T. J.; Correa, P.; Fontham, E.; Stemhagen, A.; Buffler, P. A.; Ziegler, R. G.; Fraumeni, J. F., Jr. (1986) The relation of passive smoking to lung cancer. Cancer Res. 46: 4808-4811.
- Dalbey, W. E. (1982) Formaldehyde and tumors in hamster respiratory tract. Toxicology 24: 9-14.
- Dally, K. A.; Hanrahan, L. P.; Woodbury, M. A.; Kanarek, M. S. (1981) Formaldehyde exposure in nonoccupational environments. Arch. Environ. Health 36: 277-284.
- Daum, M. L.; Lipfert, F. W.; Oden, N. L. (1986) The distribution of materials in place. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-85.1.

Dave, J. M. (1984) Studies on emissions from coal burning stoves (sigries) as used in eastern India. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 383-388. Available from: NTIS, Springfield, VA; PB85-104214.

Davidge, R. O. C. (1986) ASHRAE standards: a guarantee of occupant satisfaction? In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 171-177.

Davidson, C. I.; Lin, S.-F.; Osborn, J. F.; Pandey, M. R.; Rasmussen, R. A.; Khalil, M. A. K. (1986) Indoor and outdoor air pollution in the Himalayas. *Environ. Sci. Technol.* 20: 561-567.

Davidson, C. I.; Osborn, J. F.; Fortmann, R. C. (1984) Modeling and measurement of pollutants inside houses in Pittsburgh, Pennsylvania. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 69-74. Available from: NTIS, Springfield, VA; PB85-104214.

Davidson, D. I. (1986) Pollutant emission factors for gas stoves: a literature survey. EPA report no. EPA-600/x-xx-xxx.

Davies, J. E. (1972) The role of house dust in human DDT pollution. *W. Indian Med. J.* 21: 172.

Davies, J. E. (1987) Changing profile of pesticide poisoning. *New Engl. J. Med.* 316: 807-808.

Davis, E. S. (1986) Potential liability for indoor pollution. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-35.4.

Davis, G. S.; Hemenway, D. R.; Evans, J. N.; Lapenas, D. J.; Brody, A. R. (1981) Alveolar macrophage stimulation and population changes in silica-exposed rats. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. *Chest* 80: 8S-10S.

Davis, J. E. (1984) Procedures of dermal and inhalation studies to assess occupational exposure to pesticides. In: Siewierski, M., ed. Determination and assessment of pesticide exposures: proceedings of a working conference; October 1980; Hershey, PA. New York, NY: Elsevier; pp. 123-131.

Day, J. (1986) UFFI-fungal interaction. In: Significance of fungi in indoor air: report of a working group. Ontario, Canada: Health and Welfare Canada Working Group on Fungi and Indoor Air.

- De Bortoli, M.; Knoepfel, H.; Pecchio, E.; Peil, A.; Rogora, L.; Schauenburg, H.; Schlitt, H.; Vissers, H. (1984) Integrating "real life" measurements of organic pollution in indoor and outdoor air of homes in northern Italy. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 21-26. Available from: NTIS, Springfield, VA; PB85-104214.
- De Bortoli, M.; Knoepfel, H.; Pecchio, E.; Peil, A.; Rogora, L.; Schauenburg, H.; Schlitt, H.; Vissers, H. (1986) Concentrations of selected organic pollutants in indoor and outdoor air in northern Italy. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 343-350.
- De Bortoli, M.; Knoppel, H.; Pecchio, E.; Peil, A.; Rogora, L.; Schauenburg, H.; Schlitt, H.; Vissers, H. (1985) Measurements of indoor air quality and comparison with ambient air. Directorate-General for Science, Research and Development, Joint Research Center; EUR 1656 EN.
- De Koning, H. W.; Smith, K. R.; Last, J. M. (1984) Biomass fuel combustion and health. World Health Organization; WHO EFP/84-64.
- De Santis, V.; Longo, I. (1985) Health effects of airborne effluents released from the nuclear cycle. Environ. Res. 37: 300-312.
- Dean, J. D.; Atwood, D. F.; Donigian, A. S., Jr.; Groves, F. R.; Reible, D. D.; Thibodeaux, L. J.; Rao, P. S. C.; Withey, J. R. (1985) Exposure assessment involving mixtures of environmental pollutants. Washington, DC: U. S. Environmental Protection Agency, Office of Health and Environmental Assessment; EPA contract no. 68-03-3116.
- DeBias, D. A.; Banerjee, C. M.; Birkhead, N. C.; Greene, C. H.; Scott, S. D.; Harrer, W. V. (1976) Effects of carbon monoxide inhalation on ventricular fibrillation. Arch. Environ. Health 31: 42-46.
- Debowski, Z. (1984) Some problems of indoor air quality in polyvinyl chloride production. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 349-353. Available from: NTIS, Springfield, VA; PB85-104214.
- Decker, H. M.; Buchanan, L. M.; Hall, L. B.; Goddard, K. R. (1963) Air filtration of microbial particles. Am. J. Public Health 53: 1982-1988.
- Decoufle, P. (1982) Occupation. In: Schottenfeld, D.; Fraumeni, J. F., Jr., eds. Cancer epidemiology and prevention; Philadelphia, PA: W. B. Saunders Company; pp. 318-335.

- Dedear, R. J.; Auliciems, A. (1985) Thermal neutrality and acceptability in six Australian field studies. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 103-108.
- Del Green Associates, Inc. (1984) Summary of current and proposed state and/or local regulatory activities pertaining to residential wood and coal combustion. Research Triangle Park, NC: U. S. Environmental Protection Agency, Office of Research and Development; EPA report no. EPA-450/5-83-005a.
- Del Green Associates, Inc. (1984) Summary of major fuel use projections. Research Triangle Park, NC: U. S. Environmental Protection Agency, Office of Research and Development; EPA report no. EPA-450/5-83-005b.
- Del Green Associates, Inc. (1984) Residential wood and coal combustion: task 3, health effects literature search. Research Triangle Park, NC: U. S. Environmental Protection Agency, Office of Research and Development; EPA report no. EPA-450/5-83-005c.
- Dement, J. M.; Smith, N. D.; Hickey, J. L. S.; Williams, T. M. (1984) An evaluation of formaldehyde sources, exposures and possible remedial actions in two office environments. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 99-104.
- Denham, D. H.; Cross, F. T.; Soldat, J. K. (n.d.) Health effects estimation: methods and results for uranium mill tailings contaminated properties. Richland, WA: Pacific Northwest Laboratory.
- Depecker, P.; Allard, F.; Brau, J. (1985) Caracterisation de la qualite des enveloppes thermiques des batiments [Characterization of the quality of thermal casings of buildings]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 153-158.
- Deppe, H.-J. (1982) Emissionen von organischen Substanzen aus Spanplatten [Emission of organic substances from chip-boards]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 91-128. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Deshpande, J. M.; Nayak, U. V.; Nayak, S. U.; Patwardhan, J. R. (1984) Indoor air quality in Bombay, India with respect to respirable particulates, benzo(a)pyrene & sulphates. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 403-408. Available from: NTIS, Springfield, VA; PB85-104214.

- Dessagne, J. M. (1985) Caracterisation de la qualite d'une ambiance thermique [Evaluation of a room thermal environment quality]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 53-58.
- Detels, R.; Sayre, J. W.; Coulson, A. H.; Rokaw, S. N.; Massey, F. J., Jr.; Tashkin, D. P.; Wu, M.-M. (1981) Respiratory effect of longterm exposure to two mixes of air pollutants in Los Angeles county. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 27S-28S.
- Detels, R.; Sayre, J. W.; Coulson, A. H.; Rokaw, S. N.; Massey, F. J., Jr.; Tashkin, D. P.; Wu, M.-M. (1981) The UCLA population studies of chronic obstructive respiratory disease. IV. Respiratory effect of long-term exposure to photochemical oxidants, nitrogen dioxide, and sulfates on current and never smokers. Am. Rev. Respir. Dis. 124: 673-680.
- DeWalle, F. B.; Kalman, D. A.; Norman, D.; Plews, G. (1985) Determination of toxic chemicals in effluent from household septic tanks. Cincinnati, OH: United States Environmental Protection Agency, Water Engineering Research Laboratory; EPA report no. EPA-600/S2-85-050.
- Diamond, R. C.; Grimsrud, D. T. (1984) Manual on indoor air quality. Palo Alto, CA: Electric Power Research Institute; report no. EPRI EM-3469.
- Dietz, R. N.; Cote, E. A. (1982) Air infiltration measurements in a home using a convenient perfluorocarbon tracer technique. Environ. Int. 8: 419-433.
- DiNardi, S. R. (1986) Conceptual considerations for monitoring exposure to environmental exposure to environmental tobacco smoke. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 89-97.
- DiNardi, S. R.; Ludwig, J. F.; Tartaglia, M. S.; Abromovitz, M. W. (1984) A systems approach to the monitoring of indoor air pollutants. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 175-180. Available from: NTIS, Springfield, VA; PB85-104214.
- Dingle Associates, Inc., ed. (1983) International meeting on radon-radon progeny measurements: proceedings; August 1981; Washington, DC. Washington, DC: U. S. Environmental Protection Agency, Office of Radiation Programs; EPA report no. EPA-520/5-83-021. Rn
- Dinman, B. D. (1974) The management of acute carbon monoxide intoxication. JOM J. Occup. Med. 16: 662-664.
- Dobbs, A. J.; Williams, N. (1983) Indoor air pollution from pesticides used in wood remedial treatments. Environ. Pollut. Ser. B: 271-296.

- Dockery, D. W.; Berkey, C. S.; Ware, J. H.; Speizer, F. E.; Ferris, B. G., Jr. (1983) Distribution of forced vital capacity and forced expiratory volume in one second in children 6 to 11 years of age. Am. Rev. Respir. Dis. 128: 405-412.
- Dockery, D. W.; Spengler, J. D. (1977) Personal exposure to respirable particulates and sulfates versus ambient concentrations. Boston, MA: Harvard School of Public Health.
- Dockery, D. W.; Spengler, J. D. (1981) Personal exposure to respirable particulates and sulfates. J. Air Pollut. Control Assoc. 31: 153-159.
- Dockery, D. W.; Spengler, J. D.; Reed, M. P.; Ware, J. (1981) Relationships among personal, indoor and outdoor NO<sub>2</sub> measurements. Environ. Int. 5: 101-107.
- Dockery, D. W.; Spengler, J. D. (1981) Indoor-outdoor relationships of respirable sulfates and particles. Atmos. Environ. 15: 335-343.
- Dockery, D. W.; Ware, J. H.; Ferris, B. G., Jr.; Speizer, F. E.; Cook, N. R.; Herman, S. M. (1982) Change in pulmonary function in children associated with air pollution episodes. J. Air Pollut. Control Assoc. 32: 937-942.
- Dodge, R. (1982) The effects of indoor pollution on Arizona children. Arch. Environ. Health 37: 151-155.
- Dolan, M. C. (1985) Carbon monoxide poisoning. Can. Med. Assoc. J. 133: 392-399.
- Dolimpio, D. A.; Jacobson, J. C.; Legator, M. (1968) Effect of aflatoxin on human lymphocytes. Proc. Soc. Exp. Biol. Med. 127: 559.
- Doll, R.; Gray, R.; Hafner, B.; Peto, R. (1980) Mortality in relation to smoking: 22 years' observations on female British doctors. Br. Med. J. 280: 967-971.
- doPico, G. A.; Reddan, W. G.; Tsiatis, A.; Flaherty, D.; Jacobs, S.; Rankin, J. (1981) Pulmonary reaction to grain dust and its constituents. In: Zwilllich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 57S-60S.
- Dosman, J.; Cotton, D.; Graham, B.; Li, R.; Froh, F.; Barnett, G. D. (1981) Chronic bronchitis and decreased forced expiratory flow rates in lifetime nonsmoking grain workers. In: Zwilllich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 33S.
- Douglas, R. L.; Hans, J. M.; Wolff, T. A. (1978) Working level screening survey of structures constructed of materials containing pumice. U. S. Department of Commerce. Available from: NTIS, Springfield, VA; PB-282446.

- Downard, T. R.; Geiger, E. L.; Millard, J. B. (1984) Field evaluation of Eberline's radon daughter working level monitor. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 99-104.
- Doyle, S. M.; Nazaroff, W. W.; Nero, A. V. (1984) Time-averaged indoor Rn concentrations and infiltration rates sampled in four U.S. cities. *Health Phys.* 47: 579-586.
- Dravanieks, A. (1985) Applications of multidimensional scaling (profiling) of odor characters. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 245-250.
- Duan, N. (1982) Models for human exposure to air pollution. *Environ. Int.* 8: 305-309.
- Dudney, C. S.; Copenhaver, E. D. (1985) The elements of indoor air quality. In: Walsh, P. J.; Dudney, C. S.; Copenhaver, E. D., eds. Indoor air quality. Boca Raton, FL: CRC Press, Inc.; pp. 3-11.
- Dudney, C. S.; Hawthorne, A. R. (1985) Analysis of indoor air quality data from East Tennessee field studies. Knoxville, TN: Tennessee Valley Authority, Oak Ridge National Laboratory; ORNL report no. ORNL/TM-95-88.
- Duftschmid, K. E.; Witzani, J. (1984) Improved ionisation chamber system for indoor exposure measurement. *Radiat. Prot. Dosim.* 7: 191-193.
- Dumont, R. S. (1984) Air quality measurements in low-leakage houses. Ottawa, Canada: National Research Council of Canada, Division of Research; building research note 218.
- Dundulis, W. P., Jr.; Bell, W. J.; Keene, B. E.; Dostie, P. J. (1984) Radon-222 in the gastrointestinal tract: a proposed modification of the ICRP publication 30 model. *Health Phys.* 47: 243-252.
- Dunn, J. E. (1987) Models and statistical methods for gaseous emission testing of finite sources in well-mixed chambers. *Atmos. Environ.* 21: 425-430.
- Dupuis, L. R.; Lipfert, F. W.; Schaedler, J. W. (1986) Air quality modeling for materials damage assessment. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-85.2.
- Dyck, P. J.; Grina, L. A.; Lambert, E. H.; Calder, C. S.; Oviatt, K.; Rehder, K.; Lund, B. A.; Skau, K. A. (1980) Nitrous oxide neurotoxicity studies in man and rat. *Anesthesiology* 53: 205-209.

- Eaton, R. S. (1982) Radon and radon daughters in public, private and commercial buildings in communities associated with uranium mining and processing. In: Vohra, K. G., et al., eds. Natural radiation environment. New Delhi, India: Wiley Eastern Ltd; pp. 489-496.
- Eaton, R. S.; Scott, A. G. (1984) Understanding radon transport into houses. Radiat. Prot. Dosim. 7: 251-253.
- Eaton, W. C.; Shy, C. M.; Finklea, J. F.; Howard, J. N.; Burton, R. M.; Ward, G. H.; Benson, F. B. (1973) Exposure to indoor nitrogen dioxide from gas stoves. Research Triangle Park, NC: National Environmental Research Center, Human Studies Laboratory; unpublished manuscript.
- Eatough, D. J.; Benner, C.; Mooney, R. L.; Bartholomew, D.; Steiner, D. S.; Hansen, L. D.; Lamb, J. D.; Lewis, E. A.; Eatough, N. L. (1986) Gas and particle phase nicotine in environmental tobacco smoke. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-68.5.
- Eckmann, A. D.; Dally, K. A.; Hanrahan, L. P.; Anderson, H. A. (1982) Comparison of the chromotropic acid and modified pararosaniline methods for the determination of formaldehyde in air. Environ. Int. 8: 159-166.
- Edling, C.; Comba, P.; Axelson, O.; Flodin, U. (1982) Effects of low-dose radiation--a correlation study. Scand. J. Work Environ. Health 8(suppl. 1): 59-64.
- Edling, C.; Kling, H.; Axelson, O. (1984) Radon in homes - a possible cause of lung cancer. Scand. J. Work Environ. Health 10: 25-34.
- Edling, C.; Wingren, G.; Axelson, O. (1984) Radon daughter exposure in dwellings and lung cancer. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 29-34.
- Edling, C.; Wingren, G.; Axelson, O. (1986) Quantification of the lung cancer risk from radon daughter exposure in dwellings - an epidemiological approach. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 55-60.
- Edmisten, N. G.; Tiegs, P. (1986) Getting the heat out of new technology wood stoves: a comparative analysis. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.; pp. 365-382.
- Edwards, J. H. (1977) Humidifier fever. Thorax 32: 653-663.
- Edwards, J. H. (1980) Microbial and immunological investigations and remedial action after an outbreak of humidifier fever. Br. J. Ind. Med. 37: 55-62.

- Eger, E. I., II; Gaskey, N. J. (1986) A review of the present status of nitrous oxide. *J. Assoc. Nurse Anesth.* 54: 29-36.
- Eichholz, G. G.; Matheny, M. D.; Kahn, B. (1980) Control of radon emanation from building materials by surface coating. *Health Phys.* 39: 301-304.
- Eichler, D. L.; Mackey, J. H.; Niblock, S. F.; Weston, A. F. (1986) Entry and dissipation rates of VOCs for residences with basements. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-7.3.
- Eichler, D. L.; Mackey, J. H. (1986) The levels of certain volatile organic compounds in the ambient air of the United States. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-91.5.
- Eisenschink, A. (1985) Neue Kriterien fuer Raumklimadaten [New criteria on room climate data]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark; VVS Kongres; pp. 285-290.
- Ekwo, E. E.; Weinberger, M. M.; Lachenbruch, P. A.; Huntley, W. H. (1983) Relationship of parental smoking and gas cooking to respiratory disease in children. *Chest* 84: 662-668.
- Ellard, K. (1986) Pollution - is your home safe? *Family Circle* (August 22): 123-130.
- Elmroth, A.; Levin, P. (1983) Air infiltration in housing: a guide to international practice. Stockholm, Sweden: Royal Institute of Technology.
- Engel, P. R. (1985) Ambient air monitoring study of residential woodburning in Mio, Michigan. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-43.2.
- Engen, T. (1986) Odors and sensory irritants: effects on health and comfort. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 53-55.
- Engen, T. (1986) Perception of odor and irritation. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 177-187.

- Engen, T. (1986) The combined effect of carbon monoxide and alcohol on odor sensitivity. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 207-210.
- Enterline, P. E.; Viren, J. (1985) Epidemiologic evidence for an association between gasoline and kidney cancer. EHP Environ. Health Perspect. 2: 303-312.
- Ericson, S.-O.; Schmied, H.; Clavensjo, B. (1984) Modified technology in new constructions, and cost effective remedial action in existing structures, to prevent infiltration of soil gas carrying radon. Radiat. Prot. Dosim. 7: 223-226.
- Esmen, N. A. (1973) A direct measurement method for dustfall. J. Air Pollut. Control Assoc. 23: 34-36.
- Esmen, N. A. (1985) The status of indoor air pollution. EHP Environ. Health Perspect. 62: 259-265.
- Ettenhuber, E.; Lehmann, R. (1986) The collective dose equivalent due to the naturally occurring radionuclides in building materials in the German Democratic Republic. Part I: external exposure. Health Phys. 50: 49-56.
- Etzel, R. A.; Greenberg, R. A.; Haley, N. J.; Loda, F. A. (1985) Urine cotinine excretion in neonates exposed to tobacco smoke products in utero. J. Pediatr. 107: 146-148.
- Eudy, L. W.; Thome, F. A.; Heavner, D. L.; Green, C. R.; Ingebrethsen, B. J. (1986) Studies on the vapor-particulate phase distribution of environmental nicotine by selective trapping and detection methods. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-38.7.
- Evans, M. J.; Cabral-Anderson, L. J.; Dekker, N. P.; Freeman, G. (1981) The effects of dietary antioxidants on NO<sub>2</sub> induced injury to Type I alveolar cells. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 5S-8S.
- Evans, R. D. (1969) Engineers' guide to the elementary behavior of radon daughters. Health Phys. 17: 229-252.
- Evans, R. D.; Harley, J. H.; Jacobi, W.; McLean, A. S.; Mills, W. A.; Stewart, C. G. (1981) Estimate of risk from environmental exposure to radon-222 and its decay products. Nature (London) 290: 98-100.
- Everett, J. J.; Dreher, T. J. (1982) Institutional aspects of indoor air pollution in energy efficient residences. Environ. Int. 8: 525-531.

Facchini, U.; Martini, M.; Morniroli, E.; Procopio, G.; Tamborini, G.; Canuti, A.; Capelli, G. (1981) Concentration of radon progeny in the open air and interiors of Milan and other Italian sites. *Health Phys.* 41: 23-28.

Falk, R. (1984) Respiratory tract deposition of radon daughters in humans. *Radiat. Prot. Dosim.* 7: 377-380.

Fanning, L. Z. (1979) Formaldehyde in office trailers. Berkeley, CA: Lawrence Berkeley Laboratory; report LBID-084.

Farber, R. J.; Matamala, L. (1986) Identification of sources important to visibility using naturally emitted tracers. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-17.7.

Fassett, D. W. (1963) Aldehydes and acetals. In: Patty, F. A., ed. *Industrial hygiene and toxicology*. 2nd revised ed., v. 2. New York, NY: John Wiley and Sons, Inc.; pp. 1959-1989.

Fawcett, I. W.; Newman Taylor, A. J.; Pepys, J. (1976) Asthma due to inhaled chemical agents - fumes from 'Multicore' soldering flux and colophony resin. *Clin. Allergy* 6: 577-585.

Fawcett, I. W.; Newman Taylor, A. J.; Pepys, J. (1977) Asthma due to inhaled chemical agents - epoxy resin systems containing phthalic acid anhydride, trimellitic acid anhydride and triethylene tetramine. *Clin. Allergy* 7: 1-14.

Fayerweather, W. E.; Pell, S.; Dender, J. R. (1983) Case control study of cancer deaths in duPont workers with potential exposure to formaldehyde. In: Clary, J. J.; Gibson, J. E.; Waritz, R. E., eds. *Formaldehyde: toxicology, epidemiology, mechanisms*. New York, NY: Marcel Dekker, Inc.; pp. 47-121.

Fazio, T.; Howard, J. W. (n.d.) Polycyclic aromatic hydrocarbons in foods.

Federal Register. (1984) Manufactured home construction and safety standards. F. R. 49: 31996-32003, 32011-32012.

Federal Register. (1986) Proposed rules [concerning allowable radon exposure]. F. R. (February 21) 51: 6383-6391.

Federal Republic of Germany Bundesgesundheitsamt. (n.d.) *Vom Umgang mit Holzschutzmitteln: eine Informationsschrift des bga* [Contact with wood preservatives: information from the federal health bureau]. Berlin, Federal Republic of Germany: Bundesgesundheitsamt, Pressestelle; BGA publication no. 1503-11903.

Federal Republic of Germany Bundesgesundheitsamt. (1985) *Formaldehyde: a joint report of the Bundesgesundheitsamt, the Bundesanstalt fuer Arbeitsschutz and the Umweltbundesamt*. Munich, Federal Republic of Germany: MMV Medizin Verlag Muenchen. (bga Schriften 2/85).

Federal Republic of Germany Bundesgesundheitsamt. (1985) Vom Umgang mit Formaldehyd: eine Informationsschrift des bga [Contact with formaldehyde: information from the federal health bureau]. Berlin, Federal Republic of Germany: Bundesgesundheitsamt, Pressestelle.

Feher, I.; Andras, A.; Kobliger, L.; Zombori, P.; Szabo, P. P. (1984) Effects of activity inhomogeneities in walls on the external gamma doses in rooms. Radiat. Prot. Dosim. 7: 239-241.

Fein, A.; Grossman, R. F.; Jones, J. G.; Hoeffel, J.; McKay, D. (1980) Carbon monoxide effect on alveolar permeability. Chest 78: 726-731.

Feinleib, M.; Wilson, R. W. (1985) Trends in health in the United States. EHP Environ. Health Perspect. 62: 267-276.

Feldman, Y. G.; Bonashevskaya, T. I. (1971) The action of small concentrations of formaldehyde on the body. Gig. Sanit. 5: 6-11.

Ferahian, R. H. (1985) Indoor air pollution caused by short-circuiting of fresh air intakes with exhausts of buildings. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 307-312.

Ferahian, R. H. (1986) Contravention of Building Bylaws for HVAC systems and bad maintenance as causes of indoor air pollution. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.; pp. 251-257.

Fergusson, D. M.; Hons, B. A.; Horwood, L. J. (1985) Parental smoking and respiratory illness during early childhood: a six-year longitudinal study. Pediatr. Pulmonol. 1: 99-106.

Fernandez, P. L.; Quindos, L. S.; Soto, J.; Villar, E. (1984) Radiation exposure levels in Altamira Cave. Health Phys. 46: 445-447.

Ferrand, E. F.; Nichik, F.; Padnos, N.; Beck, E. M. (1985) Urban indoor air investigative protocol. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-46.8.

Ferris, B. G., Jr.; Dockery, D. W.; Ware, J. H.; Speizer, F. E.; Spiro, R., III. (1983) The six-city study: examples of problems in analysis of the data. EHP Environ. Health Perspect. 52: 115-123.

Ferris, B. G., Jr.; Speizer, F. E.; Spengler, J. D.; Dockery, D.; Bishop, Y. M. M.; Wolfson, M.; Humble, C. (1979) Effects of sulfur oxides and respirable particles on human health: methodology and demography of populations in study. Am. Rev. Respir. Dis. 120: 767-779.

Ferris, B. G., Jr.; Speizer, F. E.; Ware, J. H. (1981) Use of tests of pulmonary function to measure effects of air pollutants. In: Berg, G. G.; Maillie, H. D., eds. Measurement of risks. Plenum Publishing Corporation; pp. 211-230.

- Ferris, B. G., Jr.; Ware, J. H.; Berkey, C. S.; Dockery, D. W.; Spiro, A., III; Speizer, F. E. (1985) Effects of passive smoking on health of children. *EHP Environ. Health Perspect.* 62: 289-295.
- Ferris, B., Jr. (1986) Epidemiological studies of health disorders related to housing. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 49-51.
- Feustel, H. E.; Modera, M. P.; Rosenfeld, S. H. (1986) Ventilation strategies for different climates. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 342-363.
- Figley, D. A. (1985) Relation between indoor air formaldehyde concentrations and ventilation rates for a group of sixteen new houses. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-30B.7.
- Figley, D. A. (1986) Radon levels in houses with controlled ventilation. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-81.6.
- Fine, D. H.; Rounbehler, D. P. (1975) Trace analysis of volatile n-nitroso compounds by combined gas chromatography and thermal energy analysis. *J. Chromatogr.* 109: 271-279.
- Fink, J. N.; Banaszak, E. F.; Thiede, W. H.; Barboriak, J. J. (1971) Interstitial pneumonitis due to hypersensitivity to an organism contaminating a heating system. *Ann. Int. Med.* 74: 80-83.
- Finnegan, M. J.; Pickering, C. A. C.; Burge, P. S. (1984) The sick building syndrome: prevalence studies. *Br. Med. J.* 289: 1573-1575.
- Firstman, S. I. (1978) Application experience and effectiveness of urea-formaldehyde foam insulation. New York, NY: Science Applications, Inc.; report no. 351-08-1.
- Fischer, P. (1984) Indoor NO<sub>2</sub> exposure induced effects on pulmonary function. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air*, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 219-226.
- Fischer, P.; Brunekreef, B.; Boleij, J. S. M. (1986) Indoor NO<sub>2</sub> pollution and personal exposure to NO<sub>2</sub> in two areas with different outdoor NO<sub>2</sub> pollution. *Environ. Monit. Assess.* 6: 221-229.

- Fischer, P.; Remijn, B.; Brunekreef, B.; van der Lende, R.; Schouten, J.; Quanjer, P. (1985) Indoor air pollution and its effect on pulmonary function of adult non-smoking women: II. Associations between nitrogen dioxide and pulmonary function. *Int. J. Epidemiol.* 14: 221-226.
- Fischer, P.; Remijn, B.; Brunekreef, B.; Biersteker, K.; Boleij, J. S. M.; van der Lende, R.; Schouten, J. P.; Quanjer, P. H. (1986) Associations between indoor exposure to NO<sub>2</sub> and tobacco smoke and pulmonary function in adult smoking and non-smoking women. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden*. *Environ. Int.* 12: 11-15.
- Fischer, T.; Weber, A. (1980) Passivrauchen am Arbeitsplatz [Passive smoking at work]. *Soz. Praeventivmed.* 25: 401-406.
- Fise, M. E. R. (1985) Public policy options for addressing indoor air quality. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-46.6.
- Fisenne, I. M.; George, A.; McGahan, M. (1983) Radon measurement intercomparisons. *Health Phys.* 45: 553-556.
- Fishman, D. S.; Pimbert, S. L.; Nevrala, D. J. (1985) Field studies of subjective responses to the thermal environment in occupied dwellings. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark*. Copenhagen, Denmark: VVS Kongres; pp. 13-19.
- Fisk, W. J. (1986) Research review: indoor air quality control techniques. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 568-583.
- Fisk, W. J., et al. (1985) Indoor air quality control techniques: a critical review. LBL-16493; DOE/BP-00098-2.
- Fitzner, K. (1985) Air flow in air-conditioned halls. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark*. Copenhagen, Denmark: VVS Kongres; pp. 363-369.
- Flachsbart, P. G.; Brown, D. E. (1985) Merchant exposure to CO from motor vehicle exhaust at Honolulu's Ala Moana shopping center. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-85.3.
- Flachsbart, P. G.; Brown, D. E. (1986) A seasonal study of personal exposure to CO in indoor and outdoor microenvironments of Honolulu. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-6.9.

Flachsbart, P. G.; Ott, W. R. (1984) Field surveys of carbon monoxide in commercial settings using personal exposure monitors. Washington, DC: U. S. Environmental Protection Agency, Office of Monitoring Systems and Quality Assurance; EPA report no. EPA-600/4-84-019. Available from: NTIS, Springfield, VA; PB84-211291.

Flachsbart, P. G.; Ott, W. R. (1986) A rapid method for surveying CO concentrations in high-rise buildings. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 255-264.

Flachsbart, P. G.; Yo, C. A. (1986) Test of a theoretical commuter exposure model to vehicle exhaust in traffic. Presented at: 79th annual meeting of the Air Pollution Control Association. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-79.4.

Flaherty, D. K.; Deck, F. H.; Cooper, J.; Bishop, K.; Winzenburger, P. A.; Smith, L. R.; Bynum, L.; Witmer, W. B. (1984) Bacterial endotoxin isolated from a water spray air humidification system as a putative agent of occupation-related lung disease. Infect. Immun. 43: 206-212.

Flaherty, D. K.; Deck, F. H.; Hood, M. A.; Liebert, C.; Singleton, F.; Winzenburger, P.; Bishop, K.; Smith, L. R.; Bynum, L. M.; Witmer, W. B. (1984) A Cytophaga species endotoxin as a putative agent of occupation-related lung disease. Infect. Immun. 43: 213-216.

Fleischer, R. L. (1982) Lung cancer and phosphates. Environ. Int. 8: 381-385.

Fleischer, R. L. (1986) A possible association between lung cancer and a geological outcrop. Health Phys. 50: 823-827.

Fleischer, R. L.; Giard, W. R.; Mogro-Campero, A.; Turner, L. G.; Alter, H. W.; Gingrich, J. E. (1980) Dosimetry of environmental radon: methods and theory for low-dose, integrated measurements. Health Phys. 39: 957-962.

Fleischer, R. L.; Mogro-Campero, A.; Turner, L. G. (1980) Radon levels in homes in the northeastern United States: energy-efficient homes. Schenectady, NY: General Electric Corporate Research & Development; report no. 80CRD288.

Fleischer, R. L.; Mogro-Campero, A.; Turner, L. G. (1981) Radon levels in homes in the northeastern United States: energy-efficient homes. In: Vohra, K. G., et al., eds. Natural radiation environment. New Delhi, India: Wiley Eastern Ltd.; pp. 497-502.

Fleischer, R. L.; Mogro-Campero, A.; Turner, L. G. (1982) Indoor radon levels: effects of energy-efficiency in homes. Environ. Int. 8: 105-109.

Fleischer, R. L.; Mogro-Campero, A.; Turner, L. G. (1983) Indoor radon levels in the northeastern U.S.: effects of energy-efficiency in homes. Health Phys. 45: 407-412.

Fleischer, R. L.; Turner, L. G. (1984) Indoor radon measurements in the New York capital district. Health Phys. 46: 999-1011.

- Fleischer, R. L.; Turner, L. G.; George, A. C. (1984) Passive measurement of working levels and effective diffusion constants of radon daughters by the nuclear track technique. *Health Phys.* 47: 9-19.
- Fleming, G. M.; Chester, E. H.; Montenegro, H. D. (1979) Dysfunction of small airways following pulmonary injury due to nitrogen dioxide. *Chest* 75: 720-721.
- Fleming, W. S. (1986) Indoor air quality, infiltration, and ventilation in residential buildings. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 192-207.
- Flensburg, E. W.; Samsoe-Jensen, T. (1950) Studies in mold allergy: 3. Mold spore counts in Copenhagen. *Acta Allergologica (Copenhagen)* 3: 49-65.
- Fletcher, R. A. (1984) A review of personal/portable monitors and samplers for airborne particles. *J. Air Pollut. Control Assoc.* 34: 1014-1016.
- Fletcher, R. A.; Bright, D. S. (1983) NBS portable ambient particulate sampler. Gaithersburg, MD: National Bureau of Standards; NBSIR 82-2561. Available from: NTIS, Springfield, VA; PB83-165019/LL.
- Flodin, U.; Fredriksson, M.; Axelson, O.; Bodil, P.; Hardell, L. (1986) Background radiation, electrical work, and some other exposures associated with acute myeloid leukemia in a case-referent study. *Arch. Environ. Health* 41: 77-84.
- Florey, C. du V.; Melia, R. J. W.; Chinn, S.; Goldstein, B. D.; Brooks, A. G. F.; John, H. H.; Craighead, I. B.; Webster, X. (1979) The relation between respiratory illness in primary school children and the use of gas for cooking. III. Nitrogen dioxide, respiratory illness and lung infection. *Int. J. Epidemiol.* 8: 347-353.
- Florey, C. du V.; Melia, R.; Goldstein, B.; Morris, R.; John, H. H.; Clark, D. (1982) Stickstoffdioxid im Innenraum - epidemiologische Auswirkungen im Vereinigten Koenigreich [The epidemiology of indoor nitrogen dioxide in the U.K.]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. *Luftqualitaet in Innenraeumen [Indoor air quality]*. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 209-218. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Folkerts, K. H.; Keller, G.; Muth, H. (1984) Experimental investigations on diffusion and exhalation of  $^{222}\text{Rn}$  and  $^{220}\text{Rn}$  from building materials. *Radiat. Prot. Dosim.* 7: 41-44.
- Fong, S.-W. F. (1985) Radon in air. Raleigh, NC: Department of Human Resources, Environmental Radiation Surveillance Branch.
- Foresti, R., Jr.; Dennison, G. (1986) Formaldehyde originating from foam insulation. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 523-531.

- Fortmann, R. C.; Borrazzo, J. E.; Davidson, C. I. (1984) Characterization of parameters influencing indoor pollutant concentrations. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 259-264. Available from: NTIS, Springfield, VA; PB85-104214.
- Foster, S. A.; Chrostowski, P. C. (1986) Integrated household exposure model for use of tap water contaminated with volatile organic chemicals. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-12.3.
- Fox, R. B.; Shasby, M.; Harada, R. N.; Repine, J. E. (1981) A novel mechanism for pulmonary oxygen toxicity: phagocyte mediated lung injury. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 3S-4S.
- Fradkin, A.; Tarlo, S. M.; Tobin, R. S.; Tucic-Porretta, M.; Malloch, D. (1987) Species identification of airborne molds and its significance for the detection of indoor pollution. J. Air Pollut. Control Assoc. 37: 51-53.
- Frances, R.; Alessandro, D.; Lippmann, M.; Proctor, D. E.; Albert, R. E. (1970) Effect of cigarette smoke on particle transport on nasociliary mucosa of donkeys. Arch. Environ. Health 21: 25-31.
- Franck, C. (1986) Eye symptoms and signs in buildings with indoor climate problems ('60office eye syndrome'). Acta Ophthalmol. 64: 306-311.
- Franke, J. E.; Wadden, R. A. (1987) Indoor contaminant emission rates characterized by source activity factors. Environ. Sci. Technol. 21: 45-51.
- Franklin Research Center, Philadelphia, PA. (1984) Formaldehyde levels in mobile homes. Washington, DC: Department of Housing and Urban Development. Available from: NTIS, Springfield, VA; PB85-126571.
- Fraser, D. W. (1985) Potable water as a source for Legionellosis. EHP Environ. Health Perspect. 62: 337-341.
- Friedman, G. D.; Petitti, D. B.; Bawol, R. D. (1983) Prevalence and correlates of passive smoking. Am. J. Public Health 73: 401-405.
- Friedman, M. A.; Staub, J. (1977) Induction of micronuclei in mouse and hamster bone-marrow by chemical carcinogens. Mutat. Res. 43: 255-262.
- Friedmann, H. (1984) A portable continuously working radon measurement system. Radiat. Prot. Dosim. 7: 181-184.
- Frigas, E.; Filley, W. V.; Reed, C. E. (1981) Asthma induced by dust from urea-formaldehyde foam insulating material. Chest 79: 706-707.

- Frigas, E.; Filley, W. V.; Reed, C. E. (1984) Bronchial challenge with formaldehyde gas: lack of bronchoconstriction in 13 patients suspected of having formaldehyde-induced asthma. Mayo Clin. Proc. 59: 295-299.
- Fu-Chia, Y.; Chia-Yong, T. (1978) Field applications of a radon barrier to reduce indoor airborne radon progeny. Health Phys. 34: 498-501.
- Fugas, M. (1975) Assessment of total exposure to an air pollutant. Presented at: International conference on environmental sensing and assessment, v. 2; September; Las Vegas, NV. New York, NY: Institute of Electrical and Electronic Engineers; paper no. 38-5.
- Fugas, M. (1986) Assessment of true human exposure to air pollution. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 363-367.
- Fujimaki, H.; Shimizu, F.; Kubota, K. (1982) Effect of subacute exposure to NO<sub>2</sub> on lymphocytes required for antibody responses. Environ. Res. 29: 280-286.
- Fujitaka, K.; Abe, S. (1986) Effect of partition walls and neighboring buildings on the indoor exposure rate due to cosmic-ray muons. Health Phys. 51: 647-659.
- Gadek, J.; Hunninghake, G.; Schoenberger, C.; Fells, G.; Crystal, R. (1981) Pulmonary asbestosis and idiopathic pulmonary fibrosis: pathogenetic parallels. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 63S-64S.
- Gagge, A. P. (1985) Thermal sensation and comfort in dry humid environment. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 77-83.
- Gallyas, M.; Torok, I. (1984) Natural radioactivity of raw materials and products in the cement industry. Radiat. Prot. Dosim. 7: 69-71.
- Galvin, D.; Toteff, S. (1986) Toxics on the home front. Sierra (September/October): 44-48.
- Galvin, M. J.; Tilson, H. A.; Mitchell, C. L.; Peterson, J.; McRee, D. I. (1986) Influence of pre- and postnatal exposure of rats to 2.45-GHz microwave radiation on neurobehavioral function. Bioelectromagnetics 7: 57-71.
- Gamble, J.; Morey, P.; Richards, T.; Petersen, M.; Castellan, R. M. (1986) Building-related respiratory symptoms: problems in identification. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 16-30.

Gammage, R. B.; Gupta, K. C. (1985) Formaldehyde. In: Walsh, P. J.; Dudney, C. S.; Copenhaver, E. D., eds. Indoor air quality. Boca Raton, FL: CRC Press, Inc.; pp. 109-142.

Gammage, R. B.; Hingerty, B. E.; Matthews, T. G.; Hawthorne, A. R.; Womack, D. R.; Westley, R. R.; Gupta, K. C. (1983) Temporal fluctuations of formaldehyde levels inside residences. In: Proceedings of the specialty conference on measurement & monitoring of non-criteria contaminants in air; March; Chicago, IL; pp. 453-462.

Gammage, R. B.; White, D. A.; Gupta, K. C. (1984) Residential measurements of high volatility organics and their sources. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 157-162. Available from: NTIS, Springfield, VA; PB85-104214.

Gammage, R. R.; Kaye, S. V., eds. (1985) Indoor air and human health: proceedings of the seventh life sciences symposium; October 1984; Knoxville, TN. Chelsea, MI: Lewis Publishers, Inc.

Gan, T. H.; Mason, G. C.; Wise, K. N.; Whittlestone, S.; Wyllie, H. A. (1986) Desorption of  $^{222}\text{Rn}$  by moisture and heat. *Health Phys.* 50: 407-410.

Garfinkel, L. (1981) Time trends in lung cancer mortality among nonsmokers and a note on passive smoking. *JNCI J. Natl. Cancer Inst.* 66: 1061-1066.

Garfinkel, L.; Auerbach, O.; Joubert, L. (1985) Involuntary smoking and lung cancer: a case-control study. *JNCI J. Natl. Cancer Inst.* 75: 463-469.

Garland, C.; Barrett-Connor, E.; Suarez, L.; Criqui, M. H.; Wingard, D. L. (1985) Effects of passive smoking on ischemic heart disease mortality of nonsmokers. *Am. J. Epidemiol.* 121: 645-650.

Garry, V. F.; Oatman, L.; Pleus, R.; Gray, D. (1980) Formaldehyde in the home: some environmental disease perspectives. *Minnesota Med.* 63: 107-111.

Garzon, L.; Juanco, J. M.; Perez, J. M.; Fernandez, J. M.; Arganza, B. (1986) The universal Rn wave. An approach. *Health Phys.* 51: 185-195.

Gas Research Institute. (1985) Characterization of emission sources into the indoor environment. IITRI project CO 8675; pp. 138-144.

Gauge, A. C. (1982) Radon and radon daughter field measurements. In: Proceedings of a meeting on traceability for ionizing radiation measurements; May 1980; Gaithersburg, MD. Gaithersburg, MD: U. S. Department of Commerce, National Bureau of Standards; pp. 135-143.

Gebefuegi, I.; Korte, F. (1984) Indoor contamination of household articles through pentachlorophenol and lindane. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 317-322. Available from: NTIS, Springfield, VA; PB85-104214.

Geerts, J. A.; Grindal, A.; Haerdi, W.; Schiltknecht, H. (1985) Durch Luftqualitaetskriterien bestimmte Frischluftmengen [Fresh air volume defined by air quality criteria]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 327-332.

Geisling, K. L.; Tashima, M. K.; Girman, J. R.; Miksch, R. R. (1982) A passive sampling device for determining formaldehyde in indoor air. Environ. Int. 8: 153-158.

GEOMET Technologies, Inc. (1976) The status of indoor air pollution research 1976. Gaithersburg, MD: U. S. Environmental Protection Agency; final report for contract no. 68-02-2294.

GEOMET Technologies, Inc. (1985) Energy use, infiltration, and indoor air quality in tight, well-insulated residences. Palo Alto, CA: Electric Power Research Institute; EPRI report no. EA/EM-4117.

George, A. C. (1985) Measurement of sources and air concentrations of radon and radon daughters in residential buildings. ASHRAE Trans. 91: 1945-1953.

George, A. C.; Breslin, A. D. (1978) The distribution of ambient radon and radon daughters in residential buildings in the New Jersey - New York area. In: Gesell, T. F.; Lowder, W. M., eds. The natural radiation environment III, v. 2; Houston, TX. U. S. Department of Commerce; pp. 1272-1292. Available from: NTIS, Springfield, VA; CONF-780442.

George, A. C.; Duncan, M.; Franklin, H. (1984) Measurements of radon in residential buildings in Maryland and Pennsylvania, U.S.A. Radiat. Prot. Dosim. 7: 291-294.

George, A. C.; Eng, J. (1983) Indoor radon measurements in New Jersey, New York and Pennsylvania. Health Phys. 45: 397-400.

George, A. C.; Hinchliffe, L. E. (n.d.) Measurements of radon concentrations in residential buildings in the eastern United States. New York, NY: U. S. Department of Energy; Environmental Measurements Laboratory [unpublished paper].

George, A. C.; Knutson, E. O.; Franklin, H. (1983) Radon and radon daughter measurement in solar buildings. Health Phys. 45: 413-420.

George, A. C.; Knutson, E. O.; Tu, K. W. (1983) Radon daughter plateout--I. Measurements. Health Phys. 45: 439-444.

- George, A. C.; Lowder, W.; Fisenne, I.; Knutson, E. O.; Hinchliffe, L., eds. (1983) EML indoor radon workshop, 1982. New York, NY: U. S. Department of Energy, Environmental Measurements Laboratory; DOE/EML-416. Available from NTIS, Springfield, VA; CONF-8211115.
- Georghiou, P. E.; Snow, D.; Williams, D. T. (1983) Formaldehyde monitoring in urea-formaldehyde foam-insulated houses in St. John's, Newfoundland, Canada. *Environ. Int.* 9: 279-287.
- Gerry, P. A.; Green, L. L.; Moses, D. O. (1986) A comparison of the effects of ventilation and other factors for residential combustion sources of indoor air pollution. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-16.10.
- Gesell, T. F. (1975) Occupational radiation exposure due to  $^{222}\text{Rn}$  in natural gas and natural gas products. *Health Phys.* 29: 681-687.
- Gesell, T. F. (1983) Background atmospheric  $^{222}\text{Rn}$  concentrations outdoors and indoors: a review. *Health Phys.* 45: 289-302.
- Gesell, T. F.; Lowder, W. M., eds. (1980) Natural radiation environment III: proceedings, v. 1 and 2; April 1978; Houston, TX. Washington, DC: U. S. Department of Energy, Technical Information Center; CONF-780422.
- Gesell, T. F.; Prichard, H. M. (1975) The technologically enhanced natural radiation environment. *Health Phys.* 28: 361-366.
- Gesell, T. F.; Prichard, H. M. (1977) Measurements of radon-222 in water and indoor airborne radon-222 originating in water. In: Breslin, A. J., ed. Radon workshop; HASL-325, CONF-770231.
- Gesell, T. F.; Prichard, H. M. (1980) The contribution of radon in tap water to indoor radon concentrations. In: Gesell, T. F.; Lowder, W. M., eds. Natural radiation environment III. Oak Ridge, TN: U. S. Department of Energy. Available from: NTIS, Springfield, VA; CONF-780422. (DOE symposium series 51).
- Gesser, H. D. (1984) The reduction of indoor formaldehyde gas and that emanating from urea formaldehyde foam insulation (UFFI). *Environ. Int.* 10: 305-308.
- Geyh, M.; Lorch, S. (1964) Determining the contribution of Gamma rays to the natural environmental radiation at ground level. In: Adams, J. A. S.; Lowden, W. M., eds. The natural radiation environment. Chicago, IL: University of Chicago Press; pp. 979-988.
- Gillis, C. R.; Hole, D. J.; Hawthorne, V. M.; Boyle, P. (1984) The effects of environmental tobacco smoke in two urban communities in the west of Scotland. *Eur. J. Respir. Dis.* 65(Suppl. 133): 121-126.
- Ginevan, M. E.; Mills, W. A. (1986) Assessing the risks of Rn exposure: the influence of cigarette smoking. *Health Phys.* 51: 163-174.

- Ginsberg, M. D. (1985) Carbon monoxide intoxication: clinical features, neuropathology and mechanisms of injury. *J. Toxicol. Clin. Toxicol.* 23: 281-288.
- Ginsberg, M. D.; Myers, R. E. (1974) Experimental carbon monoxide encephalopathy in the primate: I. physiologic and metabolic aspects. *Arch. Neurol.* 30: 202-208.
- Girman, J. R.; Allen, J. R.; Lee, A. Y. (1984) A passive sampler for water vapor. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 227-232. Available from: NTIS, Springfield, VA; PB85-104214.
- Girman, J. R.; Allen, J. R.; Lee, A. Y. (1986) A passive sampler for water vapor. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate*; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 461-465.
- Girman, J. R.; Apte, M. G.; Traynor, G. W.; Allen, J. R.; Hollowell, C. D. (1982) Pollutant emission rates from indoor combustion applicances and sidestream cigarette smoke. *Environ. Int.* 8: 213-221.
- Girman, J. R.; Geisling, K. L.; Hodgson, A. T. (1983) Sources and concentrations of formaldehyde in indoor environments. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-14574.
- Girman, J. R.; Hodgson, A. T.; Newton, A. S.; Winkes, A. W. (1984) Volatile organic emissions from adhesives with indoor applications. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 271-276. Available from: NTIS, Springfield, VA; PB85-104214.
- Girman, J. R.; Hodgson, A. J.; Wind, M. L. (1985) Considerations in evaluating emissions from consumer products. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-19915.
- Girman, J. R.; Hodgson, A. T. (1986) Source characterization and personal exposure to methylene chloride from consumer products. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-52.7.
- Girman, J. R.; Hodgson, A. T.; Newton, A. S.; Winkes, A. W. (1986) Emissions of volatile organic compounds from adhesives with indoor applications. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate*; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 317-321.

Girman, J. R.; Hodgson, A. T.; Wind, M. L. (1987) Considerations in evaluating emissions from consumer products. In: Symposium on the characterization of contaminant emissions from indoor sources; Chaperl Hill, NC. Atmos. Environ. 21: 315-320.

Girsh, L. S.; Shubin, E.; Dick, C.; Schulaner, F. A. (1967) A study on the epidemiology of asthma in children in Philadelphia: the relation of weather and air pollution to peak incidence of asthmatic attacks. J. Allergy 39: 347-357.

Glantz, S. A. (1985) Health effects of ambient tobacco smoke. In: Walsh, P. J.; Dudney, C. S.; Copenhaver, E. D., eds. Indoor air quality. Boca Raton, FL: CRC Press, Inc.; pp. 159-172.

Glaauthier, T. J.; Mayer, F. W. (1986) A critical perspective on NAPAP's methodology for materials damage assessment. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-85.8.

Godish, T. (1983) Interpretation of one-time formaldehyde sampling results from measurements of environmental variables. In: Proceedings of the specialty conference on measurement & monitoring of non-criteria contaminants in air; March; Chicago, IL; pp. 463-467.

Godish, T.; Fell, J.; Lincoln, P. (1984) Formaldehyde levels in New Hampshire urea-formaldehyde insulated houses. Relationship to outdoor temperature. J. Air Pollut. Control Assoc. 34: 1051-1052.

Godish, T.; Rouch, J. (1985) An assessment of the Berge equation applied to formaldehyde measurements under controlled conditions of temperature and humidity in a mobile home. J. Air Pollut. Control Assoc. 35: 1186-1187.

Godish, T.; Rouch, J. (1986) Efficacy of residential formaldehyde control source removal. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-43.1.

Godish, T.; Rouch, J.; McClure, D.; Elrod, L.; Seaver, C. (1986) Ventilation system performance in a new classroom building assessed by measurements of carbon dioxide levels. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 603-610.

Godish, T.; Zollinger, T.; Konopinski, V. (1986) Relationship between symptom severity and residential formaldehyde concentrations. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-67.4.

Goldsmith, J. R. (1970) Contribution of motor vehicle exhaust, industry, and cigarette smoking to community carbon monoxide exposures. Ann. N. Y. Acad. Sci. 174: 122-134.

- Goldsmith, J. R. (1980) The "urban factor" in cancer: smoking, industrial exposures, and air pollution as possible explanations. *J. Environ. Pathol. Toxicol.* 3: 205-217.
- Goldsmith, W. A.; Poston, J. W.; Perdue, P. T.; Gibson, M. O. (1983) Radon-222 and progeny measurements in "typical" east Tennessee residences. *Health Phys.* 45: 81-88.
- Goldstein, B. D.; Melia, R. J. W.; Chinn, S.; Florey, C. V.; Clark, D.; John, H. H. (1979) The relations between respiratory illness in primary schoolchildren and the use of gas for cooking: II - factors affecting nitrogen dioxide levels in the home. *Int. J. Epidemiol.* 8: 339-345.
- Goldstein, B. D.; Melia, R. J. W.; Florey, C. du V. (1981) Indoor nitrogen oxides. Presented at: Symposium on health aspects of indoor air pollution; May 1981. *Bull. N. Y. Acad. Med.* 57: 873-882.
- Goldstein, I. F. (1986) Design strategies for epidemiologic studies of environmental impacts on health. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-67.1.
- Goldstein, I. F.; Andrews, L. R. (1986) Peak exposure to nitrogen dioxide and study design to detect their acute health effects. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-68.4.
- Goldstein, I. F.; Hartel, D.; Andrews, L. R. (1984) Indoor exposure of asthmatics to nitrogen dioxide. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 269-274.
- Goldstein, I. F.; Hartel, D.; Andrews, L. R. (1985) Monitoring personal exposure to nitrogen dioxide. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-85.7.
- Goldstein, I. F.; Hartel, D.; Andrews, L. R.; Weinstein, A. L. (1986) Indoor air pollution exposures of low-income inner-city residents. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate*; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 211-219.
- Gomez, M., ed. (1981) *Radiation hazards in mining: control, measurement, and medical aspects*. International conference; October; Golden, CO. New York, NY: Society of Mining Engineers.
- Good, B. W.; Vilcins, G.; Harvey, W. R.; Clabo, D. A., Jr.; Lewis, A. L. (1982) Effect of cigarette smoking on residential NO<sub>2</sub> levels. *Environ. Int.* 8: 167-175.

- Good, B. W.; Vilcins, G.; Harvey, W. R.; Clabo, D. A., Jr.; Lewis, A. L. (1982) Effect of cigarette smoking on residential NO<sub>2</sub> levels. Environ. Int. 8: 167-175.
- Goodman, R.; Henderson, A. S. (1986) Sine waves enhance cellular transcription. Bioelectromagnetics 7: 23-29.
- Gortmaker, S. L.; Walker, D. K.; Jacobs, F. H.; Ruch-Ross, H. (1982) Parental smoking and the risk of childhood asthma. Am. J. Public Health 72: 574-579.
- Goto, Y.; Tamura, G. T. (1984) Measurement of combustion products from a gas cooking stove in a two-storey house. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no.
- Gottschalk, G.; Suter, P. (1985) Strict similarity HVAC tests on a reduced model. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 503-508.
- Graedel, T. E.; Hawkins, D. T.; Claxton, L. D. (1986) Atmospheric chemical compounds: sources, occurrence, and bioassay. Orlando, FL: Academic Press, Inc.
- Graedel, T. E.; McGill, R. (1986) Degradation of materials in the atmosphere: common materials are vulnerable to atmospheric attack. Environ. Sci. Technol. 20: 1093-1100.
- Graeff, B. (1985) Betriebssicherheit von Laborabzuegen bei kleinen Abluftstroemern [The safety of fume cupboards with small exhaust air flow]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 453-458.
- Graeffe, G. (1986) Air ions and electrical fields. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 23-25.
- Graham, J. (1981) Effects of low-level radiation. Health Phys. 40: 105-108.
- Grant, L. D. (1984) Review of scientific studies on NOx available since CASAC closure on the criteria document (EPA-600/8-82-026F) and OAQPS staff paper [memo to Gerald E. Emison]. Research Triangle Park, NC: U. S. Environmental Protection Agency, Environmental Criteria and Assessment Office; November 13.
- Grasso, P.; Sharratt, M.; Davies, D. M.; Irvine, D. (1984) Neurophysiological and psychological disorders and occupational exposure to organic solvents. Food Chem. Toxicol. 22: 819-852.

- Green, G. H.; Sareen, K.; Osborne, A. D. (1985) Factors affecting the concentration of airborne bacteria in school classrooms. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 239-244.
- Green, L. L.; Jacobsen, P. I.; Moses, D. O. (1986) Radon control for residential indoor air. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-81.5.
- Greenberg, R. A.; Haley, N. J.; Etzel, R. A.; Loda, F. A. (1984) Measuring the exposure of infants to tobacco smoke: nicotine and cotinine in urine and saliva. *N. Engl. J. Med.* 310: 1075-1078.
- Gregory, K. L.; Malinoski, V. F.; Sharp, C. R. (1969) Cleveland clinic fire survivorship study, 1929-1965. *Arch. Environ. Health* 18: 508-515.
- Gregory, R. E.; Pickrell, J. A.; Hahn, F. F.; Hobbs, C. H. (1983) Pulmonary effects of intermittent subacute exposure to low-level nitrogen dioxide. *J. Toxicol. Environ. Health* 11: 405-414.
- Greiner, N. R. (1985) Radon emanation from coals: effects of moisture and particle size. *Health Phys.* 48: 283-288.
- Grimmer, G.; Naujack, K.-W.; Schneider, D. (n.d.) Changes in PAH-profiles in different areas of a city during the year. pp. 107-113.
- Grimsrud, D. T. (1987) Chairman's summary, session III: characterization of sources and emissions in field studies. In: Symposium on the characterization of contaminant emissions from indoor sources; Chapel Hill, NC. *Atmos. Environ.* 21: 359-360.
- Grimsrud, D. T.; Hodgson, A. T.; Turk, B. H.; Koonce, J. F.; Girman, J. R.; Thor, P.; Rothman, R. (1984) Indoor air quality field survey strategies. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 215-220. Available from: NTIS, Springfield, VA; PB85-104214.
- Grimsrud, D. T.; Lipschutz, R. D.; Girman, J. R. (1985) Indoor air quality in energy efficient residences. In: Walsh, P. J.; Dudney, C. S.; Copenhaver, E. D., eds. *Indoor air quality*. Boca Raton, FL: CRC Press, Inc.; pp. 69-85.
- Grimsrud, D. T.; Modera, M. P.; Sherman, M. H. (1982) A predictive air infiltration model--long-term field test validation. In: [LBL report]. Berkeley, CA: University of California, Lawrence Berkeley Laboratory; pp. 1351-1371; report no. HO-82-16.
- Grimsrud, D. T.; Nazaroff, W. W.; Revzan, K. L.; Nero, A. V. (1983) Continuous measurements of radon entry in a single family house. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-15839.

- Grimsrud, D. T.; Turk, B. H.; Harrison, J.; Prill, R. J. (1986) A comparison of indoor air quality in Pacific Northwest existing and new energy-efficient homes. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-16.3.
- Grindborg, J.-E. (1984) Determination of the exposure rate and distribution in rooms. *Radiat. Prot. Dosim.* 7: 243-246.
- Gronseth, R.; Han, H.; Keuhn, T.; Ramsey, J. (1986) Field measurements of humidity addition and removal in a room with a shower. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 486-499.
- Gross, S.; Sachs, H. M. (1982) Regional (location) and building factors as determinants of indoor radon concentrations in eastern Pennsylvania. Princeton, NJ: Princeton University, Center for Energy & Environmental Studies; report no. PU/CEES-146.
- Grot, R. A.; Clark, R. E. (n.d.) Air leakage characteristics and weatherization techniques for low-income housing. Presented at: Thermal performance of the external envelope of buildings conference; Orlando, FL. Center for Building Technology, NBS.
- Grotheer, W. E. (1984) Overview of control strategies for residential wood combustion. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-70.1.
- Guerin, M. R.; Higgins, C. E.; Jenkins, R. A. (1987) Measuring environmental emissions from tobacco combustion: sidestream cigarette smoke literature review. In: Symposium on the characterization of contaminant emissions from indoor sources; Chapel Hill, NC. *Atmos. Environ.* 21: 291-297.
- Guimond, R. J.; Ellett, W. H.; Fitzgerald, J. E., Jr.; Windham, S. T.; Cuny, P. A. (1979) Indoor radiation exposure due to radium-226 in Florida phosphate lands. Washington, DC: U. S. Environmental Protection Agency, Office of Radiation Programs; EPA report no. EPA-520/4-78-013. Available from: NTIS, Springfield, VA; PB-301317.
- Guimond, R. J.; Windham, S. T. (1980) Radiological evaluation of structures constructed on phosphate-related land. In: Gesell, T. F.; Lowder, W. M., eds. *Natural radiation environment III*, v. 2; U. S. Department of Commerce; pp. 1457-1475. Available from: NTIS, Springfield, VA; CONF-780442.
- Gunnarsson, M.; Bergstroem, B. (1986) The significance of man-made mineral fibers in the development of bronchitis and atelectasis of the lung. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate*; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 67-69.

Gunning, C.; Scott, A. G. (1982) Radon and thoron daughters in housing. *Health Phys.* 42: 527-528.

Gupta, K. C.; Ulsamer, A. G.; Preuss, P. W. (1982) Formaldehyde in indoor air: sources and toxicity. *Environ. Int.* 8: 349-358.

Gupta, K. C.; Ulsamer, A. G.; Gammage, R. (1984) Volatile organic compounds in residential air: levels, sources and toxicity. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no.

Gustafsson, J.; Hildingson, O. (1984) Radon measurements in dwellings using activated charcoal. *Radiat. Prot. Dosim.* 7: 203-206.

Gustafsson, J.; Nilsson, I. (1984) Tracing of radon leakages. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 125-136.

Haider, B. (1984) A twin channel device for the continuous spectrometry of radon daughters. *Radiat. Prot. Dosim.* 7: 211-213.

Haile, C.; Stanley, J.; Nulton, C.; Yauger, W., Jr. (1983) Comprehensive assessment of specific compounds present in combustion processes: volume 1, pilot study of combustion emissions variability. Washington, DC: U. S. Environmental Protection Agency, Office of Toxic Substances; EPA report no. EPA-560/5-83-004. Available from: NTIS, Springfield, VA; PB-140870.

Halbert, M. K. (1984) A perspective on particulate size analysis of consumer aerosol products. *Environ. Res.* 33: 189-200.

Hambræus, A. (1986) Microorganisms related to buildings. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 33-35.

Hammond, S. K.; Leaderer, B. P.; Roche, A. C.; Schenker, M. (1987) Collection and analysis of nicotine as a marker for environmental tobacco smoke. In: *Symposium on the characterization of contaminant emissions from indoor sources*; Chapel Hill, NC. *Atmos. Environ.* 21: 457-462.

Hancock, R. P.; Esmen, N. A.; Furber, C. P. (1976) Visual response to dustiness. *J. Air Pollut. Control Assoc.* 26: 54-57.

Handegord, G. O. (1982) Air leakage, ventilation, and moisture control in buildings. In: Lieff, M.; Trechsel, H. R., eds. *Moisture mitigation in buildings*. Philadelphia, PA: American Society for Testing and Materials; pp. 223-233. (ASTM special technical publication 779).

- Hanrahan, L. P. (1984) Formaldehyde vapor in mobile homes: a cross-sectional survey of concentrations and irritant effects. Am. J. Public Health 74: 1026-1027.
- Hanrahan, L. P.; Anderson, H. A.; Dally, K. A.; Eckmann, A. D.; Kanarek, M. S. (1985) Formaldehyde concentrations in Wisconsin mobile homes. J. Air Pollut. Control Assoc. 35: 1164-1167.
- Hansen, E. S. (1983) Mortality from cancer and ischemic heart disease in Danish chimney sweeps: a five-year follow-up. Am. J. Epidemiol. 117: 160-164.
- Hansen, E. S.; Olsen, J. H.; Tilt, B. (1982) Cancer and non-cancer mortality of chimney sweeps in Copenhagen. Int. J. Epidemiol. 11: 356-361.
- Hanson, D. J. (1985) High radon levels in homes spark moves to combat pollutant. Chem. Eng. News (November): 18-19.
- Hantschke, B. (1982) Chemische und physikalische Prozesse bei der Trocknung von Bautenanstrichmitteln und ihre Auswirkung auf die Beschaffenheit der Luft in Wohnraeumen [Chemical and physical reactions during the drying process of paints and their impact on indoor air quality]. In: Aurand, K.; Seifert, B. Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 269-282. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Hanzawa, H.; Melikow, A. K.; Fanger, P. O. (1985) Field measurements of characteristics of turbulent air flow in the occupied zone of ventilated spaces. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 409-414.
- Hara, M.; Sugawara, S.; Yamazaki, K. (1985) Relation between comfort and temperature air flow distribution in an air heated room and comfort control. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 159-164.
- Harlap, S.; Davies, A. M. (1974) Infant admissions to hospital and maternal smoking. Lancet (7857): 529-532.
- Harley, J. H. (1980) Sampling and measurement of airborne daughter products of radon. Health Phys. 38: 1067-1074.
- Harley, J. H. (1981) Radioactive emissions and radon. In: Symposium on health aspects of indoor air pollution; May; New York, NY. Bull. N. Y. Acad. Med. 57: 883-896.
- Harley, J. H. (1984) Indoor living, long life and radiation risk. Radiat. Prot. Dosim. 7: 19-22.

- Harley, N. H. (1984) Comparing radon daughter dose: environmental versus underground exposure. *Radiat. Prot. Dosim.* 7: 371-375.
- Harley, N. H. (1985) The measurement of  $^{222}\text{Rn}$  and its relationship to environmental variables. New York, NY: Institute of Environmental Medicine, New York University Medical Center Institute of Environmental Medicine; report no. DOE/EF/10374-5.
- Harley, N. H.; Altman, S. M. (1983) Progress report June 1, 1982 to May 31, 1983 - radon study. New York, NY: Institute of Environmental Medicine, New York University Medical Center Institute of Environmental Medicine; report no. DOE/EV/10374-3.
- Harley, N. H.; Cohen, B. S. (n.d.) Updating radon daughter bronchial dosimetry. New York, NY: Institute of Environmental Medicine; New York University Medical Center [unpublished paper].
- Harley, N. H.; Harley, J. H. (1986) Risk assessment for environmental exposures to radon daughters. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden.* *Environ. Int.* 12: 39-43.
- Harley, N. H.; Pasternack, B. S. (1981) A model for predicting lung cancer risks induced by environmental levels of radon daughters. *Health Phys.* 40: 307-316.
- Harley, N. H.; Pasternack, B. S. (1982) Environmental radon daughter alpha dose factors in a five-lobed human lung. *Health Phys.* 42: 789-799.
- Harper, J. P. (1986) Multipollutant field studies - design, protocol, implementation, and data management. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-5.6.
- Harrington, J. M.; Oakes, D. (1984) Mortality study of British pathologists 1974-80. *Br. J. Ind. Med.* 41: 188-191.
- Harrington, J. M.; Shannon, H. S. (1975) Mortality study of pathologists and medical laboratory technicians. *Br. Med. J.* 4(5991): 329-332.
- Harrington, W.; Krupnick, A. J. (1985) Short-term nitrogen dioxide exposure and acute respiratory disease in children. *J. Air Pollut. Control Assoc.* 35: 1061-1067.
- Harrje, D. T.; Gadsby, K. J. (1986) Practical engineering solutions for optimizing energy conservation and indoor air quality in residential buildings. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 333-341.
- Hart, K. P.; Levins, D. M.; Fane, A. G. (1986) Steady-state Rn diffusion through tailings and multiple layers of covering materials. *Health Phys.* 50: 369-379.

Hartley, J. (1985) Discussion summary: environmental health, an overview. EHP Environ. Health Perspect. 62: 277-279.

Hartley, J. N.; Freeman, H. D. (1986) Radon flux measurements on Gardinier and Royster phosphogypsum piles near Tampa and Mulberry, Florida. Montgomery, AL: U. S. Environmental Protection Agency, Office of Radiation Programs; EPA report no. EPA-520/5-85-029. Available from: NTIS, Springfield, VA; PB-

Hartman, P. E. (1983) Mutagens: some possible health impacts beyond carcinogenesis. Environ. Mutagen. 5: 139-152.

Hartwell, T. D.; Crowder, J. H.; Sheldon, L. S.; Pellizzari, E. D.; Wallace, L. (1985) Levels of volatile organics in indoor air. Presented at: 78th annual meeting of the Air Pollution Control Association: June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-30B.3

Hartwell, T. D.; Perritt, R. L.; Zelon, H. S.; Whitmore, R. W.; Pellizzari, E. D.; Wallace, L. (1984) Comparison of indoor and outdoor levels for air volatiles in New Jersey. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 81-85. Available from: NTIS, Springfield, VA; PB85-104214.

Hartwell, T. D.; Zelon, H. S.; Leininger, C. C.; Clayton, C. A.; Crowder, J. H.; Pellizzari, E. D. (1984) Comparative statistical analysis for volatile halocarbons in indoor and outdoor air. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 57-61. Available from: NTIS, Springfield, VA; PB85-104214.

Harving, H.; Korsgaard, J.; Dahl, R.; Pedersen, O. F.; Molhave, L. (1986) Low concentrations of formaldehyde in bronchial asthma: a study of exposure under controlled conditions. Br. Med. J. 293:

Harward, E. D., ed. (1977) Program report: workshop on methods for measuring radiation in and around uranium mills; May; Albuquerque, NM. Washington, DC: Atomic Industrial Forum, Inc.

Hasselblad, V.; Humble, C. G.; Graham, M. G.; Anderson, H. S. (1981) Indoor environmental determinants of lung function in children. Am. Rev. Respir. Dis. 123: 479-485.

Hawley, G. G. (1981) The condensed chemical dictionary. 10th rev. ed. New York, NY: Van Nostrand Reinhold Company.

Hawley, J. K. (1985) Assessment of health risk from exposure to contaminated soil. Risk Anal. 5: 289-302.

- Hawthorne, A. R.; Dudney, C. S.; Matthews, T. G.; Monar, K. P.; Quillen, J. L. (1986) Experimental protocol and preliminary results of air infiltration rate measurements in Tennessee valley homes. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-16.2.
- Hawthorne, A. R.; Gammage, R. B.; Dudney, C. S.; Womack, D. R.; Morris, S. A.; Westley, R. R.; Gupta, D. C. (1983) Preliminary results of a forty-home indoor air pollutant monitoring study. In: Proceedings of the specialty conference on measurement & monitoring of non-criteria contaminants in air; March; Chicago, IL; pp. 514-526.
- Hawthorne, A. R.; Gammage, R. B.; Dudney, C. S.; Womack, D. R.; Morris, S. A.; White, D. A.; Gupta, K. C. (1983) Results of a forty-home indoor air pollutant monitoring study. Presented at: 76th annual meeting of the Air Pollution Control Association; June; Atlanta, GA. Pittsburgh, PA: Air Pollution Control Association; paper no. 83-9.10.
- Hawthorne, A. R.; Gammage, R. B.; Dudney, C. S. (1984) Effect of local geology on indoor radon levels: a case study. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2. radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 137-148.
- Hawthorne, A. R.; Gammage, R. B.; Dudney, C. S. (1986) An indoor air quality study of 40 east Tennessee homes. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 221-239.
- Hawthorne, A. R.; Matthews, T. G. (1984) Formaldehyde: an important indoor pollutant. Denver, CO: Electric Power Research Institute indoor air quality workshop. Available from: NTIS, Springfield, VA; DE84012331; CONF-8405169--1.
- Hawthorne, A. R.; Matthews, T. G.; Gammage, R. B. (1985) Characterization and mitigation of organic vapors. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-30B.1.
- Hawthorne, A. R.; Matthews, T. G.; Vo-Dinh, T. (1985) Measurement techniques. In: Walsh, P. J.; Dudney, C. S.; Copenhaver, E. D., eds. Indoor air quality. Boca Raton, FL: CRC Press, Inc.; pp. 15-37.
- Hawthorne, A. R.; Matthews, T. G. (1987) Models for estimating organic emissions from building materials: formaldehyde example. In: Symposium on the characterization of contaminant emissions from indoor sources; Chapel Hill, NC. Atmos. Environ. 21: 419-424.

- Hayden, A. C. S.; Braaten, R. W. (1985) Determination of emissions and efficiency of residential wood-fired central heating appliances. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-43.4.
- Haylock, J. C.; Rush, J. L. (1976) Studies on the ozone fading of anthraquinone dyes on nylon fibers. *Text. Res. J.* 46: 1-8.
- Haylock, J. C.; Rush, J. L. (1978) Studies on the ozone fading of anthraquinone dyes on nylon fibers. Part II: in-service performance. *Text. Res. J.* 48: 143-149.
- Haynie, F. H. (1980) Theoretical air pollution and climate effects on materials confirmed by zinc corrosion data. In: Sereda, P. J.; Livitan, G. G., eds. *Durability of building materials and components: proceedings of the 1st international conference*; August 1978; Ottawa, Canada. Philadelphia, PA: American Society for Testing and Materials; pp. 157-175. (ASTM special technical publication 691).
- Haynie, F. H.; Lipfert, F. W. (1986) Comparison of materials damage functions as derived from field and chamber experiments. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-85.3.
- Haynie, F. H.; Spence, J. W.; Upham, J. B. (1976) Effects of gaseous pollutants on materials - a chamber study. Research Triangle Park, NC: U. S. Environmental Protection Agency, Office of Research and Development; EPA report no. EPA-600/3-76-015.
- Haynie, F. H.; Upham, J. B. (1970) Effects of atmospheric sulfur dioxide on the corrosion of zinc. *Mater. Prot. Perform.* 9: 35-40.
- Haynie, F. H.; Upham, J. B. (1974) Correlation between corrosion behavior of steel and atmospheric pollution data. In: Coburn, S. K., ed. *Corrosion in natural environments*; Philadelphia, PA: American Society for Testing and Materials; pp. 33-51. (ASTM special technical publication 558).
- Hayward, S. B.; Sexton, K.; Webber, L. M. (1984) Application of automated particle analysis to indoor source apportionment. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-33.8.
- Hazucha, M. J.; Ginsberg, J. F.; McDonnell, W. F.; Haak, E. D., Jr.; Pimmel, R. L.; Salaam, S. A.; House, D. E.; Bromberg, P. A. (1983) Effects of 0.1 ppm nitrogen dioxide on airways of normal and asthmatic subjects. *J. Appl. Physiol.: Respir. Environ. Exercise Physiol.* 54: 730-739.
- Health and Welfare Canada Working Group on Fungi and Indoor Air. (1986) Significance of fungi in indoor air: report of a working group. Part 1: report.

- Hearn, J. A. (1986) The pathogenesis of atherosclerosis - and an exchange on research support by the tobacco industry. *N. Engl. J. Med.* 315: 643-648.
- Heavner, D. L.; Thome, F. A.; Eudy, L. W.; Ingebrethsen, B. J.; Green, C. R. (1986) A test chamber and instrumentation for the analysis of selected environmental tobacco smoke (ETS) components. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-37.9.
- Hedge, A.; Sterling, E. M.; Sterling, T. D. (1986) Building illness indices based on questionnaire responses. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 31-43.
- Heller, W.-D. (1983) Lung cancer and passive smoking. *Lancet* (8362): 1309.
- Helman, N. A. (1985) Computation of ventilation currents. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 415-421.
- Helsing, K. J.; Comstock, G. W.; Meyer, M. B.; Tockman, M. L. (1982) Respiratory effects of household exposures to tobacco smoke and gas cooking on nonsmokers. *Environ. Int.* 8: 365-370.
- Helwig, H. (1977) Wie ungefährlich ist Formaldehyd [How safe is formaldehyde]? *Dtsch. Med. Wochenschr.* 44: 1612-1613.
- Henderson, R. F.; Rebar, A. H.; DeNicola, D. B.; Henderson, T. R.; Damon, E. G. (1981) The use of pulmonary washings as a probe to detect lung injury. In: Zwillich, C. W.; Cherniack, R. M., eds. *The 23rd Aspen lung conference: the environment and the lung*; June 1980; Aspen, CO. *Chest* 80: 12S-15S.
- Hendrick, D. J.; Lane, D. J. (1977) Occupational formalin asthma. *Br. J. Ind. Med.* 34: 11-18.
- Hendrick, D.; Ramdo, R. J.; Lane, D. J.; Morris, M. J. (1982) Formaldehyde asthma: challenge exposure levels and fate after five years. *JOM J. Occup. Med.* 24: 893-897.
- Henschel, D. B. (1986) An overview of indoor radon mitigation alternatives and a summary of recent EPA mitigation test results. Presented at: National workshop on radon gas--practical responses; May; Washington, DC. National Institute of Building Sciences.
- Henschel, D. B.; Scott, A. G. (1986) The EPA program to demonstrate mitigation measures for indoor radon: initial results. Presented at: the International Specialty Conference on indoor radon; February; Philadelphia, PA. Pittsburgh, PA: Air Pollution Control Association; pp. 110-121.

- Hernandez, T. L.; Ring, J. W. (1982) Indoor radon source fluxes: experimental tests of a two-chamber model. *Environ. Int.* 8: 45-57.
- Hernandez, T. L.; Ring, J. W.; Sachs, H. M. (1984) The variation of basement radon concentration with barometric pressure. *Health Phys.* 46: 440-445.
- Hernberg, S.; Collan, Y.; Degerth, R.; Englund, A.; Engzell, U.; Kuosma, E.; Mutanen, P.; Nordlinder, H.; Hansen, H. S.; Schultz-Larsen, K.; Sogaard, H.; Westerholm, P. (1983) Nasal cancer and occupational exposures: preliminary report of a joint Nordic case-referent study. *Scand. J. Work Environ. Health* 9: 208-213.
- Hernberg, S.; Westerholm, P.; Schultz-Larsen, K.; Degerth, R.; Kuosma, E.; Englund, A.; Engzell, U.; Hansen, H. S.; Mutanen, P. (1983) Nasal and sinonal cancer: connection with occupational exposures in Denmark, Finland and Sweden. *Scand. J. Work Environ. Health* 9: 315-326.
- Hess, C. T.; Cosparins, R. E.; Norton, S. A.; Brutseart, W. F. (1979) Radon-222 in potable water supplies in Maine: the geology, hydrology, physics, and health effects. Washington, DC: U. S. Environmental Protection Agency, Office of Water Research and Technology; completion report, project A-045-ME.
- Hess, C. T.; Fleischer, R. L.; Turner, L. G. (1983) Measurements of indoor Rn-222 in Maine: summer-vs-winter variations and effects of draftiness of homes. Schenectady, NY: General Electric Corporate Research & Development; report no. 83CRD278.
- Hess, C. T.; Fleischer, R. L.; Turner, L. G. (1985) Field and laboratory tests of etched track detectors for  $^{222}\text{Rn}$ : summer-vs-winter variations and tightness effects in Maine houses. *Health Phys.* 49: 65-79.
- Hess, C. T.; Korsah, J. K.; Einloth, C. J. (1985) Radon in houses due to radon in potable water. Orono, ME: Maine Land and Water Resources Center; University of Maine at Orono.
- Hess, C. T.; Weiffenbach, C. V.; Norton, S. A. (1982) Variations of airborne and waterborne Rn-222 in houses in Maine. *Environ. Int.* 8: 59-66.
- Hess, C. T.; Weiffenbach, C. V.; Norton, S. A. (1983) Environmental radon and cancer correlations in Maine. *Health Phys.* 45: 339-348.
- Heuvel, H. M.; Huisman, R.; Schmidt, H. M. (1978) Ozone fading of disperse blue 3 on nylon 6 fibers. The influence of physical fiber properties. *Text. Res. J.* 48: 376-384.
- Higgins, M. (1985) Critical review of the relationship between passive exposure to cigarette smoke and cardiopulmonary disease. In: Gammage, R. B.; Kaye, S. V., eds. *Indoor air and human health: proceedings of the seventh life sciences symposium*; October 1984; Knoxville, TN. Chelsea, MI: Lewis Publishers, Inc.; pp. 241-255.

- Hijazi, N.; Chai, R.; Amster, M.; Duffee, R. (1983) Indoor organic contaminants in energy-efficient buildings. In: Proceedings of the specialty conference on measurement & monitoring of non-criteria contaminants in air; March; Chicago, IL; pp. 471-477.
- Hildingson, O. (1982) Radon measurements in 12,000 Swedish homes. Environ. Int. 8: 67-70.
- Hildingson, O.; Gustafsson, J.; Nilsson, I. (1984) Locating and limiting radon in dwellings. Radiat. Prot. Dosim. 7: 403-406.
- Hileman, B. (1983) Indoor air pollution. Environ. Sci. Technol. 17: 469A-472A.
- Hinds, W. C.; First, M. W. (1975) Concentrations of nicotine and tobacco smoke in public places. N. Engl. J. Med. 292: 844-845.
- Hinds, W. C.; Rudnick, S. N.; Maher, E. F.; First, M. W. (1983) Control of indoor radon decay products by air treatment devices. J. Air Pollut. Control Assoc. 33: 134-136.
- Hinkle, L. E., Jr.; Murray, S. H. (1981) The importance of the quality of indoor air. Bull. N. Y. Acad. Med. 57: 827-844.
- Hirayama, T. (1981) Non-smoking wives of heavy smokers have a higher risk of lung cancer: a study from Japan. Br. Med. J. 282: 183-185.
- Hirayama, T. (1984) Cancer mortality in nonsmoking women with smoking husbands based on a large-scale cohort study in Japan. Prev. Med. 13: 680-690.
- Hirokawa, Y.; Horie, G. (1985) Effect of air conditioned indoor environment in summer on the living behaviours in the immediate outdoor surroundings. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 21-26.
- Hladky, V. (1985) Freier Strahl im begrenzten Raum [Free jet in a bounded area]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 447-452.
- Hodgson, A. T.; Girman, J. R.; Binenboym, J. (1986) A multisorbent sampler for volatile organic compounds in indoor air. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-37.1.
- Hodgson, M. J.; Kreiss, K. (1986) Building-associated diseases: an update. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 1-15.
- Hodgson, M. J.; Morey, P. R.; Attfield, M.; Sorenson, W.; Fink, J. N.; Rhodes, W. W.; Visvesvara, G. S. (1985) Pulmonary disease associated with cafeteria flooding. Arch. Environ. Health 40: 96-101.

Hoegg, U. R. (1972) Cigarette smoke in closed spaces. EHP Environ. Health Perspect. 2: 117-128.

Hoek, G.; Brunekreef, B.; Meijer, R.; Scholten, A. (1984) Indoor NO<sub>2</sub> and respiratory symptoms of Rotterdam children. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 227-232. Available from: NTIS, Springfield, VA; PB85-104206.

Hoek, G.; Brunekreef, B.; Meijer, R.; Scholten, A.; Boleij, J. (1984) Indoor nitrogen dioxide pollution and respiratory symptoms of schoolchildren. Int. Arch. Occup. Environ. Health 55: 79-86.

Hoek, G.; Meijer, R.; Scholten, A.; Noij, D.; Lebret, E. (1984) The relationship between indoor nitrogen dioxide concentration levels and personal exposure: a pilot study. Int. Arch. Occup. Environ. Health 55: 73-78.

Hoen, P. J.; Leaderer, B. P.; Stolwijk, J. A. J. (1984) Continuous monitoring in occupied residences of air contaminants from unvented combustion sources. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm Sweden: Swedish Council for Building Research; pp. 277-283. Available from: NTIS, Springfield, VA; PB85-104214.

Hoffman, D.; Brunnemann, K. D.; Adams, J. D.; Haley, N. J. (1984) Indoor air pollution by tobacco smoke: model studies on the uptake by nonsmokers. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 313-318.

Hoffmann, G. (1982) Pruefung von Entwesungsmitteln auf Brauchbarkeit nach dem Bunder-Seuchengesetz [Examination of pest control products and procedures for indoor application under the federal communicable diseases act]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 349-358. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

Hoffmann, D.; Wynder, E. L. (1976) Environmental respiratory carcinogenesis. In: Searle, C. E., ed. Chemical carcinogens. Washington, DC: American Chemical Society. (ACS monograph no. 173).

Hoffmann, G. (1982) Hausstaubmilben als Krankheitserreger beim Menschen [House-dust mites as vectors of human diseases]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 385-401. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

- Hofmann, W. (1982) Dose calculations for the respiratory tract from inhaled natural radioactive nuclides as a function of age-II. Basal cell dose distributions and associated lung cancer risk. *Health Phys.* 43: 31-44.
- Hofmann, W. (1984) Lung cancer induction by inhaled radon daughters - what is the relevant dose? *Radiat. Prot. Dosim.* 7: 367-370.
- Hofmann, W.; Daschil, F. (1986) Biological variability influencing lung dosimetry for inhaled  $^{222}\text{Rn}$  and  $^{220}\text{Rn}$  decay products. *Health Phys.* 50: 345-367.
- Hofmann, W.; Katz, R.; Chunxiang, Z. (1986) Lung cancer risk at low doses of particles. *Health Phys.* 51: 457-468.
- Hofmann, W.; Steinhaeusler, F.; Pohl, E. (1979) Dose calculations for the respiratory tract from inhaled natural radioactive nuclides as a function of age-I: compartmental deposition, retention and resulting dose. *Health Phys.* 37: 517-532.
- Hogeweg, B.; Bosnjakovic, B. F. M.; Willart, W. M. A. J. (1984) Radiation aspects of indoor environments and related radioecological problems: a study of the situation in the Netherlands. *Radiat. Prot. Dosim.* 7: 327-331.
- Holiday, D. A. et al. (1957) Control of radon and daughters in uranium mines and calculations on biologic effects. Washington, DC: Public Health Service publication no. 494.
- Holland, D. M. (1983) Carbon monoxide levels in microenvironment types of four U.S. cities. *Environ. Int.* 9: 369-378.
- Hollowell, C. D.; Berk, J. V.; Lin, C.-I.; Turiel, I. (1979) Indoor air quality in energy-efficient buildings. Berkeley, CA: Lawrence Berkeley Laboratory, Energy and Environment Division; contract no. W-7405-ENG-48.
- Hollowell, C. D.; Berk, J. V.; Boegel, M. L.; Ingersoll, J. G.; Krinkel, D. L.; Nazaroff, W. W. (1980) Radon in energy-efficient residences. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-9560.
- Hollowell, C. D.; Miksch, R. R. (1981) Sources and concentrations of organic compounds in indoor environments. In: *Symposium on health aspects of indoor air pollution*; May; New York, NY. *Bull. N. Y. Acad. Med.* 57: 962-977.
- Hollowell, C. D.; Traynor, G. W. (1978) Combustion-generated indoor air pollution. Presented at: 13th international colloquium on polluted atmospheres; April 1978; Paris, France. Lawrence Berkeley Laboratory report no. LBL-7832.
- Hollowell, C. D.; Young, R. A.; Berk, J. V.; Brown, S. R. (1982) Energy-conserving retrofits and indoor air quality in residential housing. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-12847. *ASHRAE Trans.* 88: (Part 1) 875-894.

- Holmberg, B.; Ahlborg, U., eds. (1983) Consensus report: mutagenicity and carcinogenicity of car exhausts and coal combustion emissions. EHP Environ. Health Perspect. 47: 1-30.
- Holub, R. F. (1984) Turbulent plateout of radon daughters. Radiat. Prot. Dosim. 7: 155-158.
- Holub, R. F.; Drouillard, R. F.; Ho, W.-L.; Hopke, P. K.; Parsley, R.; Stukel, J. J. (1979) The reduction of airborne radon daughter concentration by plateout on an air mixing fan. Health Phys. 36: 497-504.
- Holub, R. F.; Drouillard, R. F. (1980) Role of plateout in radon daughter mixture distributions in uranium mine atmospheres. Health Phys. 39: 761-772.
- Holub, R. F.; Drouillard, R. F.; Borak, T. B.; Inkret, W. C.; Morse, J. G.; Baxter, J. F. (1985) Radon-222 and  $^{222}\text{Rn}$  progeny concentrations measured in an energy-efficient house equipped with a heat exchanger. Health Phys. 49: 267-277.
- Holzman, M. I.; Scheff, P. A.; Yusoff, M. R. M. (1986) Application and evaluation of four regression techniques for a chemical mass balance receptor model. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-25.2.
- Honicky, R. E.; Akpom, C. A.; Osborne, J. S. (1983) Infant respiratory illness and indoor air pollution from a woodburning stove. Pediatrics 71: 126-128.
- Honicky, R. E.; Osborne, J. S., III; Akpom, C. A. (1985) Symptoms of respiratory illness in young children and the use of wood-burning stoves for indoor heating. Pediatrics 75: 587-593.
- Hoppe, P.; Baumgartner, A. (1985) Responses of thermophysiological parameters of sleeping subjects to variant ambient climatic conditions. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 133-139.
- Hoppe, P.; Oohori, T.; Berglund, A.; Fobelets, A.; Gwosdow, A. (1985) Vapor resistance of clothing and its effect on human response during and after exercise. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 97-102.
- Horst, R. L., Jr.; Lipfert, F. W.; Lareau, T. J. (1986) Economic evaluation of materials damage associated with acid deposition. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-85.4.

- Horstman, D. H.; Roger, L. J.; McDonnell, W. F.; Kehrl, H.; Seal, E.; Chapman, R.; Massaro, E. (1987) Pulmonary effects in asthmatics exposed to 0.30 ppm nitrogen dioxide during repeated exercise. Submitted to ARRD.
- Horstman, D.; Roger, L. J.; Kehrl, H.; Hazucha, M. (1986) Airway sensitivity of asthmatics to sulfur dioxide. *Toxicol. Ind. Health* 2:
- Horton, T. R. (1979) A preliminary radiological assessment of radon exhalation from phosphate gypsum piles and inactive uranium mill tailings piles. Washington, DC: U. S. Environmental Protection Agency, Office of Radiation Programs; EPA report no. EPA-520/5-79-004.
- Horton, T. R. (1985) Nationwide occurrence of radon and other natural radioactivity in public water supplies. Montgomery, AL: U. S. Environmental Protection Agency, Eastern Environmental Radiation Facility; EPA report no. EPA-520/5-85-008.
- Horvath, E. P.; doPico, G. A.; Barbee, R. A.; Dickie, H. A. (1978) Nitrogen dioxide-induced pulmonary disease. *JOM J. Occup. Med.* 20: 103-110.
- Horwood, L. J.; Fergusson, D. M.; Shannon, F. T. (1985) Social and familial factors in the development of early childhood asthma. *Pediatrics* 75: 859-868.
- Hosein, H. R.; Corey, P. (1986) Domestic air pollution and respiratory function in a group of housewives. *Can. J. Public Health* 77: 44-50.
- Howarth, A. T. (1985) Predictions of temperature distributions within spaces with convective heat sources. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 389-394.
- Howe, G. R.; Nair, R. C.; Newcombe, H. B.; Miller, A. B.; Abbatt, J. D. (1986) Lung cancer mortality (1950-80) in relation to radon daughter exposure in a cohort of workers at the Eldorado Beaverlodge uranium mine. *JNCI J. Natl. Cancer Inst.* 77: 357-362.
- Howes, J. E., Jr.; Vijayakumar, R.; Doerfler, F.; Burmann, F. J.; Howard, F. S. (1985) Preliminary evaluation of a modified NBS PM 10 sampler for indoor particulate measurements. Research Triangle Park, NC: U. S. Environmental Protection Agency, Environmental Monitoring Systems Laboratory. Available from: NTIS, Springfield, VA; PB85-2470057/AS.
- Howland, D. E.; Kowalczyk, G. S. (1984) An assessment of the relative source impact of residential woodburning on the ambient total suspended particulate levels in western Massachusetts. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-70.12.
- Hughes, M. M.; Natusch, D. F. S.; Taylor, D. R.; Zeller, M. V. (n.d.) Chemical transformations of particulate polycyclic organic matter. pp. 1-8.

- Hugod, C. (1984) Passive smoking - a source of indoor air pollution. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 319-325.
- Hugod, C. (1984) Indoor air pollution with smoke constituents - and experimental investigation. *Prev. Med.* 13: 582-588.
- Huter, C.; Hangartner, M.; Wanner, H.-U. (1985) Schadstoffimmissionen in Wohn- und Erholungsgebieten [Immission of pollutants in residential and recreational areas]. *Soz. Praeventivmed.* 30: 272-273.
- Hutter, G. M. (1986) Low-concentration air contaminants and modeling of the near environment. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 264-280.
- Hytonen, S.; Alfheim, I.; Sorsa, M. (1983) Effect of emissions from residential wood stoves on SCE induction in CHO cells. *Mutat. Res.* 118: 69-75.
- IEC BEAK Consultants, Ltd. (1984) Indoor air quality 20 existing homes. Ontario, Canada: Housing and Energy Management Program.
- Ilari, O.; Steinhaeusler, F. (1984) The OECD/NEA programme on radon and thoron dosimetry and monitoring: its contribution to the assessment of public exposure to natural radiation. *Radiat. Prot. Dosim.* 7: 175-179.
- Imbus, H. R. (1985) Clinical evaluation of patients with complaints related to formaldehyde exposure. *J. Allergy Clin. Immunol.* 76: 831-840.
- Imhoff, R. E. (n.d.) Final report on a study of the ambient impact of residential wood combustion in Petersville, Alabama; pp. 1-31.
- Imhoff, R. E. (1984) Control of pollutants from woodburning stoves in the indoor environment. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-32.7.
- Imhoff, R. E. (1985) Sources of indoor particulates in an area where residential wood combustion is prevalent. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-43.6.
- Imhoff, R. E.; Manning, J. A.; Bontrager, P. J. (1984) The contribution of residential wood combustion to ambient air pollution in Nashville, Tennessee - a case study. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-70.9.

- Imperato, P. J. (1981) Legionellosis and the indoor environment. Bull. N. Y. Acad. Med. 57: 922-935.
- Ingersoll, J. G. (1983) A survey of radionuclide contents and radon emanation rates in building materials used in the U.S. Health Phys. 45: 363-368.
- Ingersoll, J. G.; Stitt, B. D.; Zapalac, G. H. (1983) A fast and accurate method for measuring radon exhalation rates from building materials. Health Phys. 45: 550-552.
- Interagency Regulatory Liason Group. (1981) Integrated risk assessment: formaldehyde. U. S. Department of Energy; Department of Housing and Urban Development.
- International Agency for Research on Cancer. (1982) Formaldehyde. In: IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans, v. 29: some industrial chemicals and dyestuffs. Lyon, France: World Health Organization; pp. 345-389.
- International Agency for Research on Cancer. (1986) IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans, v. 38: tobacco smoking. Lyon, France: World Health Organization.
- International Agency for Research on Cancer. (1986) In press.
- International Commission on Radiological Protection. (1981) Limits for inhalation of radon daughters by workers. Oxford, United Kingdom: Pergamon Press. (ICRP publication no. 32).
- International Commission on Radiological Protection. (1983) Principles for limiting exposure of the public to natural sources of radiation: a report of the International Commission on Radiological Protection. (ICRP publication 39). Ann. ICRP 14: 1-8.
- International Organization for Standardization. (1983) Air quality - particle size fraction definitions for health-related sampling. Technical report no. ISO/TR7708-1983(E).
- Ishizu, Y.; Kaneki, K. (1984) Evaluation of ventilation systems through numerical computation and presentation of a new ventilation model. Trans. SHASE (24): 47-57.
- Israeli, M. (1985) Deposition rates of Rn progeny in houses. Health Phys. 49: 1069-1083.
- Ivakhnov, V. I.; Agarev, E. M.; Tikhomirova, L. M. (1985) Facteurs determinant l'efficacite de fonctionnement des systemes de conditionnement d'air dans les entrepots frigorifiques pour le stockage des fruits et legumes [Factors affecting the efficiency of air conditioning systems in fruit and vegetables cold stores]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 429-433.

- Iversen, M.; Bach, E.; Lundqvist, G. R. (1986) Health and comfort changes among tenants after retrofitting of their housing. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 161-166.
- Iversen, O. H. (1986) Formaldehyde and skin carcinogenesis. Environ. Int. 12: 541-544.
- Iversen, O. H. (1986) Cancer risks in relation to other health hazards in a modern society. Environ. Int. 12: 499-503.
- Jabara, J. W.; Keefe, T. J.; Beaulieu, H. J.; Buchan, R. M. (1980) Carbon monoxide: dosimetry in occupational exposures in Denver, Colorado. Arch. Environ. Health 35: 198-204.
- Jackson, M. D.; Lewis, R. G. (1981) Insecticide concentrations in air after application of pest control strips. Bull. Environ. Contam. Toxicol. 27: 122-125.
- Jackson, M. D.; Wright, C. G. (1975) Diazinon and chlorpyrifos residues in food after insecticidal treatment in rooms. Bull. Environ. Contam. Toxicol. 13: 593-595.
- Jacobi, W. (1984) Possible lung cancer risk from indoor exposure to radon daughters. Radiat. Prot. Dosim. 7: 395-401.
- Jaeger, R. J. (1981) Carbon monoxide in houses and vehicles. In: Symposium on health aspects of indoor air pollution; May; New York, NY. Bull. N. Y. Acad. Med. 57: 860-882.
- Jakab, G. J.; Knight, M. E. (1982) Decreased influenza virus pathogenesis by infection with germicidal UV-irradiated airborne virus. Environ. Int. 8: 415-418.
- James, A. C. (1984) Dosimetric approaches to risk assessment for indoor exposure to radon daughters. Radiat. Prot. Dosim. 7: 353-366.
- Janssen, J. E. (n.d.) Ventilation stratification and air mixing. Saint Paul, MN: Honeywell, Inc.
- Janssen, J. E.; Hill, T. J.; Woods, J. E.; Maldonado, E. A. B. (1982) Ventilation for control of indoor air quality: a case study. Environ. Int. 8: 487-496.
- Janssen, J. E.; Wolff, A. S. (1986) Subjective response to ventilation. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 161-170.
- Janssens, A.; Raes, F.; Poffijn, A. (1984) Transients in the exhalation of radon caused by changes in ventilation and atmospheric pressure. Radiat. Prot. Dosim. 7: 81-86.

- Jarvis, B. B. (1986) Potential indoor air pollution problems associated with macrocyclic trichothecene producing fungi. In: Significance of fungi in indoor air: report of a working group. Ontario, Canada: Health and Welfare Canada Working Group on Fungi and Indoor Air.
- Jarvis, M. J.; Russell, M. A. H. (1984) Measurement and estimation of smoke dosage to non-smokers from environmental tobacco smoke. Eur. J. Resp. Dis. 65(suppl. 133) 68-75.
- Jarvis, M. J.; Russell, M. A. H.; Feyerabend, C.; Eiser, J. R.; Morgan, M. (1985) Passive exposure to tobacco smoke: saliva cotinine concentrations in a representative population sample of non-smoking school children. Br. Med. J. 291: 927-929.
- Jedrzejewska-Scibak, T.; Lipinski, D. M. (1985) Numerical prediction of air flow in industrial halls. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 377-381.
- Jenq, F.-T.; Tsai, J.-H. (1986) Indoor air pollution due to cigarette smoking. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: paper no. 86-80.8.
- Jewell, R. A. (1980) Reduction of formaldehyde levels in mobile homes. Presented at the symposium: wood adhesives - research, applications, and needs; September; Madison, WI.
- Jewell, R. A. (1980) Reduction of formaldehyde levels in mobile homes. Presented at: Consumer Products Safety Commission technical workshop on formaldehyde; April; Gaithersburg, MD.
- Jha, G.; Raghavayya, M.; Padmanabhan, N. (1982) Radon permeability of some membranes. Health Phys. 42: 723-725.
- Jimenez-Diaz, C.; Ales, J. M.; Ortiz, F.; Lahoz, F.; Garcia Puente, L. M.; Canto, G. (1960) The aetiological role of molds in bronchial asthma. Acta Allergol. Suppl. 7: 139-149.
- Johansson, G. I.; Samuelsson, C.; Pettersson, H. (1984) Characterisation of the aerosol and the activity size distribution of radon daughters in indoor air. Radiat. Prot. Dosim. 7: 133-137.
- Johansson, I. (1978) Determination of organic compounds in indoor air with potential reference to air quality. Atmos. Environ. 12: 1371-1377.
- Johnson, C. (1986) Letter to the editors. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 21-22.
- Johnson, C. J. (1987) A cohort study of cancer incidence in Mormon families exposed to nuclear fallout versus an area-based study of cancer deaths in whites in southwestern Utah [letter to the editors]. Am. J. Epidemiol. 125: 166-168.

Johnson, C. L.; Bernstein, I. L.; Gallagher, J. S.; Bonventre, P. F.; Brooks, S. M. (1980) Familial hypersensitivity pneumonitis induced by Bacillus subtilis. Am. Rev. Respir. Dis. 122: 339-348.

Johnson, D.; Billick, I.; Moschandreas, D.; Relwani, S. (1984) Emission rates from unvented gas appliances. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 367-373. Available from: NTIS, Springfield, VA; PB85-104214.

Johnson, J. E.; Olson, H. G. (1978) Measurement of Rn-222 build-up in solar heated buildings and calculation of radiation doses. Ft. Collins, CO: Solar Energy Applications Laboratory, Colorado State University; report no. COO-4546-2.

Johnson, R. J. (1982) Residential moisture conditions - facts and experience. In: Lieff, M.; Trechsel, H. R., eds. Moisture mitigation in buildings. Philadelphia, PA: American Society for Testing and Materials; pp. 234-240. (ASTM special technical publication 779).

Johnson, W. B.; Bailey, P. G. (1983) Study of radon daughter concentrations in Polk and Hillsborough Counties. Health Phys. 45: 432-435.

Jonassen, N. (1983) The determination of radon exhalation rates. Health Phys. 45: 369-376.

Jonassen, N. (1983) The effect of electric fields on <sup>222</sup>Rn daughter products in indoor air. Health Phys. 45: 487-491.

Jonassen, N. (1984) Removal of radon daughters by filtration and electric fields. Radiat. Prot. Dosim. 7: 407-411.

Jonassen, N. (1985) Removal of radon daughters from indoor air. ASHRAE Trans. 91: 1980-1986.

Jonassen, N. (1987) The effect of filtration and exposure to electric fields on airborne radon progeny. In: Hopke, P. K., ed. Radon and its decay products: occurrence, properties, and health effects; April; New York, NY. Washington, DC: American Chemical Society; in press. (ACS symposium series).

Jonassen, N.; McLaughlin, J. P. (1982) Air filtration and radon daughter levels. Environ. Int. 8: 71-75.

Jonassen, N.; McLaughlin, J. P. (1984) Airborne radon daughters, behavior and removal. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate , v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 21-27.

- Jones, B. W.; McCullough, E. A. (1985) Computer modeling for estimation of clothing insulation. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 189-194.
- Jones, J. R.; Higgins, I. T. T.; Higgins, M. W.; Keller, J. B. (1983) Effects of cooking fuels on lung function in nonsmoking women. *Arch. Environ. Health* 38: 219-222.
- Jones, R. N.; Hughes, J. M.; Glindmeyer, H.; Weill, H. (1986) Lung function after acute chlorine exposure. *Am. Rev. Respir. Dis.* 134: 1190-1195.
- Jones, W.; Morring, K.; Morey, P.; Sorenson, W. (1985) Evaluation of the Andersen viable impactor for single stage sampling. *Am. Ind. Hyg. Assoc. J.* 46: 294-298.
- Jonsson, G. (1984) Radon measurements in Sweden. Some results. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 155-159.
- Joyner, K. H.; Bangay, M. J. (1986) Exposure survey of operators of radiofrequency dielectric heaters in Australia. *Health Phys.* 50: 333-344.
- Ju, C.; Spengler, J. D. (1981) Room-to-room variations in concentration of respirable particles in residences. *Environ. Sci. Technol.* 15: 592-596.
- Jungers, R. H.; Akland, G. G.; Sauls, H. B. (1985) A human exposure assessment study using personal monitoring of carbon monoxide - direct and indirect methods. *Environ. Int.* 11: 413-418.
- Jurinski, N. B. (1984) The evaluation of chlordane and heptachlor vapor concentrations within buildings treated for insect pest control. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 51-56. Available from: NTIS, Springfield, VA; PB85-104214.
- Kabat, G. C.; Wynder, E. L. (1984) Lung cancer in nonsmokers. *Cancer* (Philadelphia) 53: 1214-1221.
- Kabat, G. C.; Wynder, E. L. (1986) Patterns of exposure to environmental tobacco smoke in a group of hospitalized patients. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-80.7.
- Kagamimori, S.; Katoh, T.; Naruse, Y.; Watanabe, M.; Kasuya, M.; Shinkai, J.; Kawano, S. (1986) The changing prevalence of respiratory symptoms in atopic children in response to air pollution. *Clin. Allergy* 16: 299-308.

- Kagan, E.; Miller, K. (1981) Asbestos inhalation and the induction of Splenic lymphocytic proliferation in the rat. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 11S-12S.
- Kahlos, H.; Asikainen, M. (1980) Internal radiation doses from radioactivity of drinking water in Finland. Health Phys. 39: 108-111.
- Kahn, B.; Eichholz, G. G.; Clarke, F. J. (1979) Assessment of the critical populations at risk due to radiation exposure in structures. Atlanta, GA: Georgia Institute of Technology, School of Nuclear Engineering; unpublished manuscript.
- Kahn, B.; Eichholz, G. G.; Clarke, F. J. (1983) Search for building materials as sources of elevated radiation dose. Health Phys. 45: 349-361.
- Kalinic, N.; Fugas, M.; Sega, K.; Sisovic, A. (1986) Formaldehyde levels in selected indoor microenvironments. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 297-299.
- Kamath, Y. K.; Ruetsch, S. B.; Weigmann, H.-D. (1983) Microspectrophotometric study of ozone fading of disperse dyes in nylon. Text. Res. J. 53: 391-402.
- Kamens, R. M.; Perry, J. M.; Saucy, D. A.; Bell, D. A.; Newton, D. L.; Brand, B. (n.d.) Factors which influence PAH decomposition on wood smoke particles. Environ. Int.: in press.
- Kamens, R. M.; Rives, G. D.; Perry, J. M.; Goodman, R. G.; Bell, D. A.; Saucy, D. A. (1983) Mutagenic and chemical changes in dilute wood smoke as it ages and reacts in the atmosphere: an outdoor chamber study. Presented at: 76th annual meeting of the Air Pollution Control Association; June; Atlanta, GA. Pittsburgh, PA: Air Pollution Control Association; paper no. 83-54.12.
- Kamens, R. M.; Rives, G. D.; Perry, J. M.; Bell, D. A.; Paylor, R. F., Jr.; Goodman, R. G.; Claxton, L. D. (1984) Mutagenic changes in dilute wood smoke as it ages and reacts with ozone and nitrogen dioxide: an outdoor chamber study. Environ. Sci. Technol. 18: 523-530.
- Kamens, R.; Rives, G.; Claxton, L. (n.d.) Airborne particle mutagenicities and sampling artifacts: an outdoor chamber approach.
- Kane, L. E.; Alarie, Y. (1977) Sensory irritation to formaldehyde and acrolein during single and repeated exposures in mice. Am. Ind. Hyg. Assoc. J. 38: 509-522.
- Kaplan, A.; Mill, P. (1986) Indoor air quality: findings from a pilot field trial. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 150-160.

- Kashdan, E. R.; Sickles, J. E.; Ranade, M. B. (1984) Review of recent research in indoor air quality. Research Triangle Park, NC: U. S. Environmental Protection Agency, Industrial Environmental Research Laboratory; EPA report no. EPA-600/S2-84-099. Available from: NTIS, Springfield, VA; PB84-206515.
- Kataoka, T.; Ikebe, Y.; Minato, S. (1979) Influence of the distribution of  $^{222}\text{Rn}$  concentration under the ground on natural gamma-ray flux density and exposure rate. *Health Phys.* 37: 669-675.
- Katz, R.; Hofmann, W. (1984) Some comments on the concepts of dose and dose equivalent. *Health Phys.* 47: 603-611.
- Kauffmann, F.; Neukirch, F.; Korobaeff, M.; Marne, M.-J.; Claude, J.-R.; Lelouch, J. (1986) Eosinophils, smoking, and lung function: an epidemiologic survey among 912 working men. *Am. Rev. Respir. Dis.* 134: 1172-1175.
- Kauffmann, F.; Tessier, J.-F.; Oriol, P. (1983) Adult passive smoking in the home environment: a risk factor for chronic airflow limitation. *Am. J. Epidemiol.* 117: 269-280.
- Kavet, R. I.; Banks, R. S. (1986) Emerging issues in extremely-low-frequency electric and magnetic field health research. *Environ. Res.* 39: 386-404.
- Kawamura, R.; Stanley, T. H.; English, J. B.; Hill, G. E.; Liu, W.-S.; Webster, L. R. (1980) Cardiovascular responses to nitrous oxide exposure for two hours in man. *Anesth. Analg.* 59: 93-99.
- Keller, G.; Folkerts, K. H. (1984) Radon-222 concentrations and decay-product equilibrium in dwellings and in the open air. *Health Phys.* 47: 385-398.
- Keller, G.; Folkerts, K. H.; Muth, H. (1984) Special aspects of the  $^{222}\text{Rn}$  and daughter product concentrations in dwellings and in the open air. *Radiat. Prot. Dosim.* 7: 151-154.
- Keller, G.; Folkerts, K.-H. (1984) A study on indoor radon. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 149-154.
- Keller, M. D.; Lanese, R. R.; Mitchell, R. I.; Cote, R. W. (1979) Respiratory illness in households using gas and electricity for cooking. I. Survey of incidence. *Environ. Res.* 19: 495-503.
- Keller, M. D.; Lanese, R. R.; Mitchell, R. I.; Cote, R. W. (1979) Respiratory illness in households using gas and electricity for cooking. II. Symptoms and objective findings. *Environ. Res.* 19: 504-515.
- Keller, R. (1986) Luftverschmutzung und Lungenkrankheiten beim Erwachsenen [Air pollution and adult lung ailments]. *Soz. Praeventivmed.* 31: 12-15.

Kelley, J. S.; Sophocleus, G. J. (1978) Retinal hemorrhages in subacute carbon monoxide poisoning: exposures in homes with blocked furnace flues. *JAMA* J. Am. Med. Assoc. 239: 1515-1517.

Kentner, M.; Triebig, G.; Weltle, D. (1984) The influence of passive smoking on pulmonary function--a study of 1,351 office workers. *Prev. Med.* 13: 656-669.

Kerns, W. D.; Donofrio, D. J.; Pavkov, K. L. (1983) The chronic effects of formaldehyde inhalation in rats and mice: a preliminary report. In: Gibson, J. E., ed. *Formaldehyde toxicity*. New York, NY: Hemisphere Publishing Corporation; pp. 111-131.

Kerr, N.; Morris, M. A.; Zeronian, S. H. (1969) The effect of ozone and laundering on a vat-dyed cotton fabric. *Am. Dyest. Rep.* 58: 34-36.

Khan, A.; Bandi, F.; Phillips, C. R.; Duport, P. (n.d.) Underground measurements of aerosol and radon and thoron progeny activity distributions. Ottawa, ON, Canada: Atomic Energy Control Board of Canada [unpublished].

Khan, A.; Phillips, C. R. (1985) Performance of a passive electret dosimeter for Rn progeny. *Health Phys.* 49: 986-991.

Khan, A.; Phillips, C. R. (1985) The application of electrets to passive Rn progeny dosimeters. *Health Phys.* 49: 853-858.

Khan, A.; Phillips, C. R. (1986) A simple two-count method for routine monitoring of  $^{222}\text{Rn}$  and  $^{220}\text{Rn}$  progeny working levels in U mines. *Health Phys.* 50: 381-388.

Khan, T. R.; Deczky, K.; Meranger, J. C.; Sherman, G. (1983) Characterization of exposure levels of  $\text{NO}_2$  and  $\text{SO}_2$  and their health effects in residents of Vanier City, (Ottawa), Ontario. Presented at: 76th annual meeting of the Air Pollution Control Association; June; Atlanta, GA. Pittsburgh, PA: Air Pollution Control Association; paper 83-64.5.

Khan, T. R.; Meranger, J. C. (1983) Recent advances in  $\text{SO}_2$ ,  $\text{NO}_x$ , and  $\text{O}_3$  personal monitoring. *Environ. Int.* 9: 195-206.

Kilburn, K. H.; Seidman, B. C.; Warshaw, R. (1985) Neurobehavioral and respiratory symptoms of formaldehyde and xylene exposure in histology technicians. *Arch. Environ. Health* 40: 229-233.

Kilpatrick, S. J., Jr. (1986) Letter to the editors. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate*; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 29-31.

- Kim, Y. S.; Kreisel, W. (1984) Effects of household exposures to carbon monoxide poisoning in Korea. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 117-122. Available from: NTIS, Springfield, VA; PB85-104214.
- Kim, Y. S.; Spengler, J. D.; Yanagisawa, Y. (1984) Indoor nitrogen dioxide pollution in Korea. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 409-412. Available from: NTIS, Springfield, VA; PB85-104214.
- Kim, Y. S.; Spengler, J. D.; Yanagisawa, Y. (1986) Measurements of indoor and personal exposures to nitrogen dioxide in Korea. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 401-406.
- Kim, Y. S.; Stock, T. H. (1986) House-specific characterization of indoor and outdoor aerosols. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 75-92.
- Kim, Y. S.; Stock, T. H.; Dattner, S. L. (1985) Source identification of outdoor and indoor inhalable particulate matter in the Houston area. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association. paper no. 85-30A.5
- Kimura, K.; Tanabe, S. (1985) Design of Waseda University environmental test chamber and its performance characteristics. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 121-126.
- King, T. A.; Green, L. L.; Moses, D. O. (1986) Estimating concentrations and health risks of nitrogen dioxide in residences. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-68.7.
- Kinney, P. L.; Ozkaynak, H.; Burbank, B. (1986) Choosing an exposure metric for investigating acute pulmonary function effects of air pollution. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-66.1.

Kirsch, L. S. (1985) Liability for indoor air pollution in the workplace. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-46.7.

Kleindienst, T. E.; Shepson, P. B.; Edney, E. O.; Claxton, L. D.; Cupitt, L. T. (1986) Wood smoke: measurement of the mutagenic activities of its gas-and particulate-phase photooxidation products. *Environ. Sci. Technol.* 20: 493-501.

Kleinman, M. T.; Bailey, R. M.; Linn, W. S.; Anderson, K. R.; Whynot, J. D.; Shamoo, D. A.; Hackney, J. D. (1983) Effects of 0.2 ppm nitrogen dioxide on pulmonary function and response to bronchoprovocation in asthmatics. *J. Toxicol. Environ. Health* 12: 815-826.

Kluf, H.; Kuhn, H. (1982) *Beitr. Tabakforsch. Int.* 11: 229-265.

Knight, C. V.; Humphreys, M. P. (1984) Indoor air quality associated with conventional and new technology wood heaters in a weatherized home. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no.

Knight, C. V.; Humphreys, M. P.; Kuberg, D. W. (1986) Summary of three-year study related to wood heater impacts on IAQ. Prepared for: International conference on residential wood energy; March; Reno, NV. Chattanooga, TN: Tennessee Valley Authority, Division of Conservation and Energy Management.

Knight, C. V.; Humphreys, M. P.; Pinnix, J. C. (1986) Indoor air quality related to wood heaters. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 430-447.

Knight, G. B.; Makepeace, C. E. (1980) Modification of the natural radionuclide distribution by some human activities in Canada. In: Gesell, T. F.; Lowder, W. M., eds. *Natural radiation environment III*, v. 2. U. S. Department of Commerce; pp. 1494-1510. Available from: NTIS, Springfield, VA; CONF-780442.

Knoll, W. H.; Sperling, F. (1985) A new design criterion - tested in practice. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongress; pp. 7-12.

Knoppel, H. (1987) Chairman's summary, session V: sampling and analysis: chamber and field studies. In: *Symposium on the characterization of contaminant emissions from indoor sources*; Chapel Hill, NC. *Atmos. Environ.* 21: 439-442.

Knutson, E. O.; George, A. C.; Frey, J. J.; Koh, B. R. (1983) Radon daughter plateout--II. Prediction model. *Health Phys.* 45: 445-452.

- Knutson, E. O.; George, A. C.; Knuth, R. H.; Koh, B. R. (1984) Measurements of radon daughter particle size. *Radiat. Prot. Dosim.* 7: 121-125.
- Kobal, I.; Smodis, B.; Skofljanec, M. (1986) Radon-222 air concentrations in the Slovenian Karst caves of Yugoslavia. *Health Phys.* 50: 830-834.
- Koblinger, L. (1984) Mathematical models of external gamma radiation and congruence of measurements. *Radiat. Prot. Dosim.* 7: 227-234.
- Koenig, J. Q.; Covert, D. S.; Morgan, M. S.; Horike, M.; Horike, N.; Marshall, S. G.; Pierson, W. E. (1985) Acute effects of 0.12 ppm ozone or 0.12 ppm nitrogen dioxide on pulmonary function in healthy and asthmatic adolescents. *Am. Rev. Respir. Dis.* 132: 648-651.
- Kohari, B. K.; Han, Y. (1984) Association of indoor radon concentrations with airborne surveys of uranium in surficial material. *Northeastern Environmental Science*; in press.
- Konopinski, V. J. (1984) Residential formaldehyde and carbon dioxide. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 329-334. Available from: NTIS, Springfield, VA; PB85-104206.
- Koo, L. C.; Ho, J. H.-C.; Saw, D. (1984) Is passive smoking an added risk factor for lung cancer in Chinese women? *J. Exp. Clin. Cancer Res.* 3: 277-283.
- Koo, L. C.; Ho, J. H.-C.; Saw, D. (1985) An analysis of some risk factors for lung cancer in Hong Kong. *Int. J. Cancer* 35: 149-155.
- Koontz, M. D.; Fortmann, R. C.; Nagda, N. L.; Billick, I. H. (1986) Protocol for an indoor air quality monitoring survey conducted in Texas. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-6.3.
- Koontz, M. D.; Nagda, N. L. (1984) Infiltration and air quality in well-insulated homes: 3. measurement and modeling of pollutant levels. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 5, buildings, ventilation and thermal climate; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 511-516. Available from: NTIS, Springfield, VA; PB85-104222.
- Koontz, M. D.; Nagda, N. L. (1985) Systematic development of survey instruments for indoor air quality studies. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI: Air Pollution Control Association; paper no. 85-31.2.
- Koperski, J. (1984) Natural indoor gamma background in an urban environment of Southern Poland. *Radiat. Prot. Dosim.* 7: 263-266.

- Koren, G.; Sloan, I. (1985) The pharmacokinetics of inhaled N<sub>2</sub>O in children. Res. Commun. Chem. Pathol. Pharmacol. 49: 95-108.
- Kossove, D. (1982) Smoke-filled rooms and lower respiratory disease in infants. South Afr. Med. J. 61: 622-624.
- Krasnec, J. P.; Demaray, D. E. (1984) Sampling and monitoring toxic gases in indoor environments. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 191-196. Available from: NTIS, Springfield, VA; PB85-104214.
- Krause, C. (1982) Wirkstoffe von Holzschutzmittein im haeslichen Bereich [Active ingredients of wood preservatives used in homes]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 309-316. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Krause, C.; Englert, N. (1980) Zur gesundheitlichen Bewertung pentachlorphenolhaltiger Holzschutzmittel in Wohnraeumen [The health effects of pentachlorphenol containing wood finishes in living areas]. Holz Roh Werkst. 38: 429-432.
- Kreiss, K.; Gonzalez, M. G.; Conright, K. L.; Scheere, A. R. (1982) Respiratory irritation due to carpet shampoo: two outbreaks. Environ. Int. 8: 337-341.
- Kreiss, K.; Hodgson, M. J. (1984) Building-associated epidemics. In: Walsh, P. J.; Dudney, C. S.; Copenhaver, E. D., eds. Indoor air quality. Boca Raton, FL: CRC Press, Inc.; pp. 87-106.
- Krisiuk, E. M. (1980) Airborne radioactivity in buildings. Health Phys. 38: 199-202.
- Kulju, L. M.; Chu, K.-D.; Hopke, P. K. (n.d.) The development of mobility analyzer for studying the particle producing phenomena related to radon progeny. Urbana-Champaign, IL: Department of Civil Engineering; Institute of Environmental Studies; University of Illinios.
- Kunde, M. (1982) Erfahrungen bei der Bewertung von Holzschutzmitteln [Experience in the evaluation of wood preservatives]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 317-326. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Kunkel, G.; Rudolph, R.; Muckelmann, R. (1982) Innenraumluft und allergische Erkrankungen [Indoor air and allergic diseases]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Repbulic of Germany: Gustav Fischer Verlag; pp. 75-90. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

- Kuraitas, K. V.; Richters, A.; Sherwin, R. P. (1981) Spleen changes in animals inhaling ambient levels of nitrogen dioxide. *J. Toxicol. Environ. Health* 7: 851-859.
- L'Abbe, K. A.; Hoey, J. R. (1984) Review of the health effects of urea-formaldehyde foam insulation. *Environ. Res.* 35: 246-263.
- Lafavore, M. (1986)  $^{222}\text{Rn}$ : the radon report. *Rodale's New Shelter* (January): 29-36.
- LaForce, F. M. (1986) Airborne infections and modern building technology. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden*. *Environ. Int.* 12: 137-146.
- Lamb, B.; Westberg, H.; Bryant, P.; Dean, J.; Mullins, S. (1985) Air infiltration rates in pre- and post-weatherized houses. *J. Air Pollut. Control Assoc.* 35: 545-551.
- Landa, E. R.; Miller, C. L.; Updegraff, D. M. (1986) Leaching of  $^{226}\text{Rn}$  from U mill tailings by sulfate-reducing bacteria. *Health Phys.* 51: 509-518.
- Landsiedel, H.; Plum, H. (1981) Untersuchungen zur Fluechtigkeit von Tributylzinn-Verbindungen [The volatility of tributyl zinc compounds]. *Holz Roh Werkst.* 39: 261-264.
- Lane, D. D.; Carter, R. E., Jr.; Marotz, G. A. (1986) Sampling and preliminary modeling of ambient air volatile organic compound (VOC) content using a bulk air technique. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-20.5.
- Langhein, S.; Vogel., K.-H. (1985) Ein Beitrag zur kanallosen Luftfuehrung in grossen Raeumen mit hohem Versperrungsgrad [Duct-free direction of air current in large and heavily obstructed rooms]. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark*. Copenhagen, Denmark: VVS Kongres; pp. 441-446.
- Langkilde, G.; Gunnarsen, L.; Mortensen, N. (1985) Comfort limits during infrared radiant heating of industrial spaces. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air conditioning, v. 4, indoor climate; August; Copenhagen, Denmark*. Copenhagen, Denmark: VVS Kongress; pp. 33-40.
- Langner, G. H., Jr.; Pacer, J. C.; Johnson, V. G.; Gillings, M. A. (1983) Evaluation of methods for the estimation of indoor radon daughter concentrations for remedial action programs. Bendix Field Engineering Corporation report GJ/TMC-04(83).
- Lanson, G. (1986) Is your dream house a nightmare? *Am. Health* (June): 82, 86-92.

Larsson, L.-G.; Damber, L. (1986) Underground mining, smoking, and lung cancer [response to comments]. JNCI J. Natl. Cancer Inst. 76: 553-554.

Last, J. A. (1983) Health effects of indoor air pollution: synergistic effects of nitrogen dioxide and a respirable aerosol. Environ. Int. 9: 319-322.

Lauch, R.; Sorg, T. (1985) [Two entries from June monthly report: selective removal of radium from drinking water and AWWA Research Foundation cooperative agreement]. In: Monthly report, June 1985. Cincinnati, OH: U. S. Environmental Protection Agency, Water Engineering Research Laboratory; p. 9.

Lawrence Berkeley Laboratory. (1982) Control of formaldehyde and radon in the built environment - a survey of the literature. U. S. Department of Energy contract no. DE-AC03-76F00098.

Lawrence Berkeley Laboratory. (1984) Manual on indoor air quality. Berkeley, CA: Lawrence Berkeley Laboratory, Electric Power Research Institute; EPRI report no. EPRI EM-3469.

Leaderer, B. P. (1986) Assessing human exposure to indoor air contaminants. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 208-212.

Leaderer, B. P.; Renes, S.; Bluysen, P.; Van De Loo, H. (1986) Chamber studies of NO<sub>2</sub>, SO<sub>2</sub> and RSP deposition rates indoors. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-38.3.

Leaderer, B. P.; Stolwijk, J. A. J.; Zagraniski, R. T.; Qing-Shan, M. (1984) A field study of indoor air contaminant levels associated with unvented combustion sources. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-33.3.

Leaderer, B. P.; Zagraniski, R. T.; Holford, T. R.; Berwick, M.; Stolwijk, J. A. J. (1984) Multivariate model for predicting NO<sub>2</sub> levels in residences based upon sources and source use. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 43-48. Available from: NTIS, Springfield, VA; PB85-104214.

Leaderer, B. P.; Zagraniski, R. T.; Berwick, M.; Stolwijk, J. A. J.; Qing-Shan, M. (1984) Residential exposures to NO<sub>2</sub>, SO<sub>2</sub> and HCHO associated with unvented kerosene space heaters, gas appliances and sidestream tobacco smoke. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 151-156. Available from: NTIS, Springfield, VA; PB85-104214.

- Leaderer, B. P.; Zagraniski, R. T.; Berwick, M.; Stolwijk, J. A. J. (1986) Assessment of exposure to indoor air contaminants from combustion sources: methodology and application. *Am. J. Epidemiol.* 124: 275-289.
- Leaderer, B. P. (1987) Foreword. In: *Symposium on the characterization of contaminant emissions from indoor sources*; Chapel Hill, NC. *Atmos. Environ.* 21: 279-280.
- Lebowitz, M. (1986) Passive smoking and health effects. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 29-32.
- Lebowitz, M. D. (1983) Health effects of indoor pollutants. *Ann. Rev. Public Health* 4: 203-221.
- Lebowitz, M. D. (1984) Influence of passive smoking on pulmonary function: a survey. *Prev. Med.* 13: 645-655.
- Lebowitz, M. D. (1986) The potential association of lung cancer with passive smoking. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate*; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 3-9.
- Lebowitz, M. D.; Armet, D. B.; Knudson, R. (1982) The effect of passive smoking on pulmonary function in children. *Environ. Int.* 8: 371-373.
- Lebowitz, M. D.; Corman, G.; O'Rourke, M. K.; Holberg, C. J. (1984) Indoor-outdoor air pollution, allergen and meteorological monitoring in an arid Southwest area. *J. Air Pollut. Control Assoc.* 34: 1035-1038.
- Lebowitz, M. D.; Holberg, C. J.; O'Rourke, M. K.; Corman, G.; Dodge, R. (1983) Gas stove usage, CO and TSP, and respiratory effect. Presented at: 76th annual meeting of the Air Pollution Control Association; June; Atlanta, GA. Pittsburgh, PA: Air Pollution Control Association; paper no.83-9.1.
- Lebowitz, M. D.; Holberg, C. J.; Boyer, B.; Hayes, C. (1985) Respiratory symptoms and peak flow associated with indoor and outdoor air pollutants in the Southwest. *J. Air Pollut. Control Assoc.* 35: 1154-1158.
- Lebowitz, M. D.; O'Rourke, M. K.; Dodge, R.; Holberg, C. J.; Corman, G.; Hoshaw, R. W.; Pinnas, J. L.; Barbee, R. A.; Sneller, M. R. (1982) The adverse health effects of biological aerosols, other aerosols, and indoor microclimate on asthmatics and nonasthmatics. *Environ. Int.* 8: 375-380.
- Lebret, E. (1985) Air pollution in Dutch homes: an exploratory study in environmental epidemiology. Wageningen, The Netherlands: Department of Air Pollution, Department of Environmental and Tropical Health; report R-138; report 1985-221.

Lebret, E.; van de Wiel, H. J.; Bos, H. P.; Noij, D.; Boleij, J. S. M. (1984) Volatile hydrocarbons in Dutch homes. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 169-174. Available from: NTIS, Springfield, VA; PB85-104214.

Lebret, E.; van de Wiel, H. J.; Bos, H. P.; Noij, D.; Boleij, J. S. M. (1986) Volatile organic compounds in Dutch homes. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 323-332.

Lee, R. D.; Watson, J. E., Jr.; Fong, S.-W. (F.) (1979) An assessment of radium in selected North Carolina drinking water supplies. Health Phys. 37: 777-779.

Lee, R. E., Jr., ed. (n.d.) D. Indoor levels. In: Air pollution from pesticides and agricultural processes. Boca Raton, FL: CRC Press, Inc.; pp. 30-32.

Lee, S. D.; Chen, C. W.; Parker, J.; Anderson, L. D.; Bayliss, D. L.; Cogliano, J.; Sakai, C.; Mohin, T. (1986) Health and risk assessment of chloroform. Research Triangle Park, NC: U. S. Environmental Protection Agency, Office of Health and Environmental Assessment.

Leeder, S. R.; Corkhill, R.; Irwig, L. M.; Holland, W. W.; Colley, J. R. T. (1976) Influence of family factors on the incidence of lower respiratory illness during the first year of life. Br. J. Prev. Soc. Med. 30: 203-212.

Lefcoe, N. M.; Inculet, I. I. (1971) Particulates in domestic premises: 1. Ambient levels and central air filtration. Arch. Environ. Health 22: 230-238.

Lefkowitz, S. S.; McGrath, J. J.; Lefkowitz, D. L. (1983) Effects of NO<sub>2</sub> on interferon production in mice. In: Lee, S. D.; Mustafa, M. G.; Mehlman, M. A., eds. International symposium on the biomedical effects of ozone and related photochemical oxidants, v. 5; March 1982; Pinehurst, NC. Princeton, NJ: Princeton Scientific Publications; pp. 469-474. (Advances in modern environmental toxicology).

Lefkowitz, S. S.; McGrath, J. J.; Lefkowitz, D. L.; Spicer, J. B. (1984) Interferon production following NO<sub>2</sub> exposure. Int. J. Pharm. 6: 275-278.

Lehtimaeki, M.; Graeffe, G.; Janka, K.; Kulmala, V.; Rajala, M. (1984) On the behaviour of radon daughters in indoor air. Radiat. Prot. Dosim. 7: 165-168.

Lehtimaeki, M.; Graeffe, G. (1986) Measurement of air ions. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 109-113.

- Lehtimaeki, M.; Kivistoe, T. (1982) Ueber das Verhalten des Radons in Raeumen und seine Anwendung als Spurengas bei Ventilationsmessungen [Behaviour of radon in rooms and its use as an indicator for air exchange rate measurements]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 167-177. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Leidy, R. B.; Wright, C. G.; Dupree, H. E., Jr. (1982) Concentration and movement of diazinon in air. *J. Environ. Sci. Health Part B* 17: 311-319.
- Leidy, R. B.; Wright, C. G.; Dupree, H. E., Jr.; MacLeod, K. E. (1984) Concentration and movement of diazinon in air. II. vertical distribution in rooms. *J. Environ. Sci. Health Part B* 19: 747-757.
- Letourneau, E. G.; McGregor, R. G.; Taniguchi, H. (1978) Background levels of radon and radon daughters in Canadian homes. In: Proceedings of the specialty meeting on personal dosimetry and area; November; Paris, France. NEA, OECD.
- Letourneau, E. G.; McGregor, R. G.; Walker, W. B. (1984) Design and interpretation of large surveys for indoor exposure to radon daughters. *Radiat. Prot. Dosim.* 7: 303-308.
- Letz, R.; Ryan, P. B.; Spengler, J. D. (1984) Estimated distributions of personal exposure to respirable particles. *Environ. Monit. Assess.* 4: 351-359.
- Letz, R.; Ware, J. H.; Ferris, B. G., Jr.; Spengler, J. D. (1981) Pulmonary functions of children and indoor NO<sub>2</sub> concentrations in Portage, Wisconsin. Presented at: International symposium on indoor air pollution, health and energy conservation; October; Amherst, MA. Available for inspection at: U. S. Environmental Protection Agency, Environmental Criteria and Assessment Office, Research Triangle Park, NC.
- Levent, D. (1985) Confort themique des vehicules [Vehicle thermal comfort]. In: Fanger, P. O., ed CLIMA 2000: proceedings of the world congress on heating, ventilating and air -conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 177-182.
- Levin, H.; Hahn, J. (1986) Pentachlorophenol in indoor air: methods to reduce airborne concentrations. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 333-341.
- Levin, J.-O.; Lindahl, R.; Andersson, K. (1986) A passive sampler for formaldehyde in air using 2,4-dinitrophenylhydrazine-coated glass fiber filters. *Environ. Sci. Technol.* 20: 1273-1276.
- Levin, W.; Wood, A. W.; Yagi, H.; Dansette, P. M.; Jerina, D. M.; Conney, A. H. (1976) Carcinogenicity of benzo[a]pyrene-4,5-,7,8-, and 9,10-oxides on mouse skin. *Proc. Natl. Acad. Sci.* 73: 243-247.

- Levine, R. J.; Andjelkovich, D. A.; Shaw, L. K. (1984) The mortality of Ontario undertakers and a review of formaldehyde-related mortality studies. *JOM J. Occup. Med.* 26: 740-746.
- Lewis, R. G.; Bond, A. E.; Fitz-Simons, T. R.; Johnson, D. E.; Hsu, J. P. (1986) Monitoring for non-occupational exposure to pesticides in indoor and personal respiratory air. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-37.4.
- Lewis, R. G.; Bond, A. E.; Johnson, D. E.; Hsu, J. P. (1987) Measurement of atmospheric concentrations of common household pesticides: a pilot study. *Environ. Sci. Technol.* 21: in press.
- Lewis, R. G.; Jackson, M. D. (1982) Modification and evaluation of a high-volume air sampler for pesticides and semivolatile industrial organic chemicals. *Anal. Chem.* 54: 592-594.
- Lewis, R. G.; MacLeod, K. E. (1982) Portable sampler for pesticides and semivolatile industrial organic chemicals in air. *Anal. Chem.* 54: 310-315.
- Lewis, R. G.; Mulik, J. D.; Coutant, R. W.; Wooten, G. W.; McMillin, C. R. (1985) Thermally desorbable passive sampling device for volatile organic chemicals in ambient air. *Anal. Chem.* 57: 214-219.
- Lewtas, J. (n.d.) Comparison of the mutagenic and potentially carcinogenic activity of particle bound organics from wood stoves, residential oil furnaces, and other combustion sources. In: Residential solid fuels; pp. 606-619.
- Lewtas, J. (n.d.) A quantitative cancer risk assessment methodology using short-term genetic bioassays: the comparative potency method. Research Triangle Park, NC: U. S. Environmental Protection Agency, Health Effects Research Laboratory; in press.
- Lewtas, J. (n.d.) Comparative potency method for cancer assessment: application to the quantitative assessment of the contribution of combustion emissions to lung cancer risk. Research Triangle Park, NC: U. S. Environmental Protection Agency, Health Effects Research Laboratory; in press.
- Lewtas, J. (n.d.) Development of a comparative potency method for cancer risk assessment of complex mixtures using short-term in vivo and in vitro bioassays. *J. Toxicol. Occup. Health:* in press.
- Lewtas, J. (1983) Evaluation of the mutagenicity and carcinogenicity of motor vehicle emissions in short-term bioassays. *EHP Environ. Health Perspect.* 47: 141.
- Lewtas, J. (1983) Comparative approach to evaluating relative cancer risks from energy sources using short-term genetic bioassays. In: Hayes, A. W.; Schnell, R. C.; Miya, T. S., eds. *Developments in the science and practice of toxicology.* New York, NY: Elsevier Science Publishers B. V.; pp. 23-34.

- Lewtas, J. (1985) Combustion emissions: characterization and comparison of their mutagenic and carcinogenic activity. In: Stich, H. F., ed. *Carcinogens and mutagens in the environment*, v. IV: the workplace. Boca Raton, FL: CRC Press; pp. 59-74.
- Lewtas, J. (1985) Combustion emissions: characterization and comparison of their mutagenic and carcinogenic activity. In: Stich, H. F., ed. *Carcinogens and mutagens in the environment*, v. 5. Boca Raton, FL: CRC Press, Inc.; pp. 59-74.
- Lewtas, J.; Austin, A.; Claxton, L.; Burton, R.; Jungers, R. (n.d.) The relative contribution of PNAs to the microbial mutagenicity of respirable particles from urban air. pp. 449-459.
- Lewtas, J.; Goto, S.; Williams, K.; Chuang, J. C.; Petersen, B. A.; Wilson, N. K. (1987) The mutagenicity of indoor air particles in a residential pilot field study: application and evaluation of new methodologies. In: *Symposium on the characterization of contaminant emissions from indoor sources*; Chapel Hill, NC. *Atmos. Environ.* 21: 443-449.
- Lewtas, J.; Nesnow, S.; Albert, R. E. (1983) A comparative potency method for cancer risk assessment: clarification of the rationale, theoretical basis, and application to diesel particulate emissions. *Risk Anal.* 3: 133-137.
- Liebling, T.; Rosenman, K. D.; Pastides, H.; Griffith, R. G.; Lemeshow, S. (1984) Cancer mortality among workers exposed to formaldehyde. *Am. J. Ind. Med.* 5: 423-428.
- Lijinsky, W.; Shubik, P. (1964) Benzo(a)pyrene and other polynuclear hydrocarbons in charcoal-broiled meat. *Science (Washington, DC)* 145: 53-55.
- Lin, C. I.; Anaclerio, R. N.; Anthon, D. W.; Fanning, L. Z.; Hollowell, C. D. (1979) Indoor/outdoor measurements of formaldehyde and total aldehydes. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-9397.
- Lindborg, L.; Edvarson, K. (1984) An approximate measuring technique for indoor radon daughter activity concentrations. *Radiat. Prot. Dosim.* 7: 207-210.
- Lindeken, C. L.; Jones, D. E.; McMillen, R. E. (1973) Environmental radiation background variations between residences. *Health Phys.* 24: 81-86.
- Lindell, B. (1984) A radon control programme in theory and practice. *Radiat. Prot. Dosim.* 7: 417-425.
- Linn, W. S.; Hackney, J. D. (1983) Short-term human respiratory effects of nitrogen dioxide: determination of quantitative dose-response profiles; phase I. exposure of health volunteers to 4 ppm NO<sub>2</sub>. Atlanta, GA: Coordinating Research Council, Inc.; APRAC project CAPM-48-83 (1-82).

- Linn, W. S.; Hackney, J. D. (1984) Short-term human respiratory effects of nitrogen dioxide: determination of quantitative dose-response profiles; phase II. exposure of asthmatic volunteers to 4 ppm NO<sub>2</sub>. Atlanta, GA: Coordinating Research Council, Inc.; APRAC project CAPM-48-83.
- Linn, W. S.; Shamoo, D. A.; Spier, C. E.; Valencia, L. M.; Anzar, U. T.; Venet, T. G.; Avol, E. L.; Hackney, J. D. (1985) Controlled exposure of volunteers with chronic obstructive pulmonary disease to nitrogen dioxide. *Arch. Environ. Health* 40: 313-317.
- Linn, W. S.; Solomon, J. C.; Trim, S. C.; Spier, C. E.; Shamoo, D. A.; Venet, T. G.; Avol, E. L.; Hackney, J. D. (1985) Effects of exposure to 4 ppm nitrogen dioxide in healthy and asthmatic volunteers. *Arch. Environ. Health* 40: 234-239.
- Lionel, T.; Martin, R. J.; Brown, N. J. (1986) A comparative study of combustion in kerosene heaters. *Environ. Sci. Technol.* 20: 78-85.
- Lioy, P. J.; Avdenko, M.; Harkov, R.; Daisey, J. (1984) An indoor-outdoor study of inorganic and organic particulate matter - a pilot study. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 27-32. Available from: NTIS, Springfield, VA; PB85-104214.
- Lioy, P. J.; Avdenko, M.; Harkov, R.; Daisey, J. (1985) A pilot indoor-outdoor study of organic particulate matter and particulate mutagenicity. *J. Air Pollut. Control Assoc.* 35: 653-657.
- Lioy, P. J.; Spector, D.; Thurston, G.; Citak, K.; Lippmann, M.; Bock, N.; Speizer, F.; Hayes, C. (1986) The design considerations for ozone and acid aerosol exposure and health investigations: the Fairview Lake summer camp-photochemical smog case study. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-67.6.
- Lipari, F.; Swarin, S. J. (1985) 2,4-dinitrophenylhydrazine-coated florisil sampling cartridges for the determination of formaldehyde in air. *Environ. Sci. Technol.* 19: 70-74.
- Lipfert, F. W. (1982) A national assessment of the air quality impacts of residential firewood use. In: *Proceedings of the residential wood and coal combustion specialty conference*; March; Louisville, KY. Pittsburgh, PA: Air Pollution Control Association; pp. 226-239.
- Lippmann, M. (1985) Development of particle size-selective threshold limit values. *Ann. Am. Conf. Ind. Hyg.* 12: 27-33.
- Lippmann, M.; Lioy, P. J. (1985) Critical issues in air pollution epidemiology. *EHP Environ. Health Perspect.* 62: 243-258.

- Lipschutz, R. D.; Girman, J. R.; Dickinson, J. B.; Allen, J. R.; Traynor, S. W. (1981) Infiltration and indoor air quality in energy efficient houses in Eugene, Oregon. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-12924.
- Liu, C. S.; Gray, H. A.; Grisinger, J. E.; Davidson, A. (1986) PM10 modeling in the south coast air basin of California. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-25.5.
- Liu, K.-S.; Hayward, S. B.; Petreas, M.; Webber, L. (1986) Determinants of formaldehyde concentrations inside mobile homes. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-7.7.
- Liu, K.-S.; Hayward, S. B.; Kulasingam, G.; Chang, B.-H.; Sexton, K. (1986) Estimation of formaldehyde exposure for mobile home residents. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-68.1.
- Livingston, J. M.; Jones, C. R. (1981) Living area contamination by chlordane used for termite treatment. Bull. Environ. Contam. Toxicol. 27: 406-411.
- Livingston, R. A. (1986) Critique of the carbonate mass loss model for paint damage functions. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-85.7.
- Lloyd, L. L. (1981) Butte radiation study: report to the 1981 Montana Legislature. Montana: Montana Department of Health and Environmental Sciences.
- Lloyd, L. L.; Mercer, D. (1981) Testing of air cleaning devices to determine their capabilities to reduce radon progeny concentrations in homes. Montana Department of Health and Environmental Sciences.
- Lofroth, G.; Nilsson, L.; Alfheim, I. (1983) Passive smoking and urban air pollution: Salmonella/microsome mutagenicity assay of simultaneously collected indoor and outdoor particulate matter. In: Waters, M. D.; Sandhu, S. S.; Lewtas, J.; Claxton, L.; Chernoff, N.; Nesnow, S., eds. Short-term bioassays in the analysis of complex environmental mixtures III. New York, NY: Plenum Press; pp. 515-525. (Environmental science research: v. 27).
- Lombard, J.; Oudiz, A.; Zettwoog, P. (1986) A contribution to optimizing radiological protection in a U mine. Health Phys. 50: 473-483.
- Lonergan, R. J. (1986) Evaluation of air quality estimates for materials damage assessment. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-85.6.

- Lord, D. (1986) Air quality in western culture: a short history. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 106-118.
- Lorenz, F. (1982) Calculation of ventilation requirements in the case of intermittent pollution: application to enclosed parking garages. Environ. Int. 8: 515-524.
- Love, G. J.; Lan, S.-P.; Shy, C. M.; Riggan, W. B. (1982) Acute respiratory illness in families exposed to nitrogen dioxide ambient air pollution in Chattanooga, Tennessee. Arch. Environ. Health 37: 75-80.
- Lowder, W. M.; George, A. C.; Gogolak, C. V.; Blay, A. (1971) Indoor radon daughter and radiation measurements in East Tennessee and Central Florida. New York, NY: U. S. Department of Energy, Health and Safety Laboratory; report HASL TM 71-8.
- Lowder, W. M.; Raft, P. D. (1976) Radiation measurements in Polk County, Florida. New York, NY: U. S. Department of Energy, Health and Safety Laboratory; report no. HASL 76-7.
- Lowder, W. M.; Raft, P. D. (1977) Radiation measurements in Polk County, Florida. New York, NY: U. S. Department of Energy, Health and Safety Laboratory; report no. HASL 77-3.
- Lowry, J. D.; Brutsaert, W. F.; McEnerney, T.; Molk, C. (1982) Progress report (R-808724-01-1): the reduction of airborne radon in houses by removal from household water supply. In: A research grants progress seminar. U. S. Environmental Protection Agency; pp. 318-331; EPA report no. EPA-600/X-85-106.
- Lowry, T.; Schuman, L. (1956) "Silo-gilter's disease" - a syndrome caused by nitrogen dioxide. JAMA J. Am. Med. Assoc. 62: 153-160.
- Luben, R. A.; Cain, C. D.; Chen, M. C.-Y.; Rosen, D. M.; Adey, W. R. (1982) Effects of electromagnetic stimuli on bone and bone cells in vitro: inhibition of responses to parathyroid hormone by low-energy low-frequency fields. Proc. Natl. Acad. Sci. U. S. A. 79: 4180-4184.
- Lucier, G. W.; Hook, G. E. R. (1984) Report on the consensus workshop on formaldehyde. EHP Environ. Health Perspect. 58: 323-381.
- Ludin, F. E.; Archer, V. E.; Wagoner, J. K. (1979) An exposure-time response model for lung cancer mortality in uranium miners: effects of radiation exposure, age, and cigarette smoking. In: Breslow, N. E.; Whittimore, A. S., eds. Energy and health: proceedings of the 2nd conference of the Society for Industrial and Applied Mathematics. Philadelphia, PA; pp. 243-264.
- Ludlin, F. D., Jr.; Wagoner, J. K.; Archer, V. E. (1971) Radon daughter exposure and respiratory cancer, quantitative and temporal aspects. Washington, DC: Public Health Service; PHS joint monograph no. 1.

- Ludwig, J. F.; Reynolds, M. A.; Burch, J. B.; Frazier, S. E.; Muranaka, M. T.; Tartaglia, M. S.; DiNardi, S. R. (1985) Formaldehyde emissions in mobile homes: an assessment of driving potentials. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4; indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 271-277.
- Lum, R. M.; Graedel, T. E. (1973) Measurements and models of indoor aerosol size spectra. *Atmos. Environ.* 7: 827-842.
- Lundqvist, G. R.; Iversen, M.; Korsgaard, J. (1982) Indoor climate in low-ventilated day-care institutions. *Environ. Int.* 8: 139-142.
- Lundqvist, G. R.; Monies, Ø. (1985) Mineral fibres and particulates in the indoor environment. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 215-220.
- Lutz, G. A.; Mitchell, R. I.; Cote, R. W.; Keller, M. D. (1977) Indoor epidemiology study. Columbus, OH: American Gas Association; project EP-3-4.
- Lynn, D.; Ott, W.; Tabor, E.; Smith, R. (1967) Present and future commuter exposure to carbon monoxide. Presented at: 60th annual meeting of the Air Pollution Control Association; June; Cleveland, OH. Pittsburgh, PA: Air Pollution Control Association; paper no. 67-5.
- Machado, S. G.; Land, C. E.; McKay, F. W. (1987) Cancer mortality and radioactive fallout in southwestern Utah. *Am. J. Epidemiol.* 125: 44-61.
- Macher, J. M.; Hansson, H.-C. (1986) Personal size-separating impactor for sampling microbiological aerosols. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-68.6
- Mack, G. A.; Howes, J. E.; Rodes, C. E. (1987) Carbon monoxide exposures of Washington commuters. *J. Air Pollut. Control Assoc.* 37: in press.
- Mackay, D.; Paterson, S. (1983) Fugacity models of indoor exposure to volatile chemicals. *Chemosphere* 12: 143-154.
- Macriss, R. A.; Elkins, R. H. (1977) Control of the level of NO<sub>x</sub> in the indoor environment. Presented at: 4th international clean air congress; May; Tokyo, Japan.
- Maekelaeinen, I. (1984) Calibration of bare LR-115 film for radon measurements in dwellings. *Radiat. Prot. Dosim.* 7: 195-197.
- Mage, D. T. (1985) Concepts of human exposure assessment for airborne particulate matter. *Environ. Int.* 11: 407-412.

- Mage, D. T., et al. (1985) Human exposure assessment location (HEAL) project: United States component. Research Triangle Park, NC: U. S. Environmental Protection Agency, Environmental Monitoring Systems Laboratory.
- Mage, D. T.; Cox, B. G.; Immerman, F. W. (1986) Sample design consideration for indoor air exposure surveys. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-5.7.
- Magno, P. J.; Guimond, J. (1987) Assessing exposure to radon in the United States: an EPA perspective. In: Hopke, P. K., ed. Radon and its decay products: occurrence, properties, and health effects; April; New York, NY. Washington, DC: American Chemical Society; in press. (ACS symposium series).
- Magyar, T. (1985) Experiments of recent measuring of air movement in confined spaces. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 403-408.
- Main, F. D., Jr.; Wagoner, J. K.; Archer, V. E. (1971) Radon daughter exposure and respiratory cancer, quantitative and temporal aspects. Washington, DC: Public Health Service; PHS joint monograph no. 1.
- Makulla, D.; Moellers, P.; Rouvel, L. (1985) Bedarfs- und Schadstoffgefuehrtes Raumlufttechnik-system [Air conditioning system with thermal and contamination control]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 333-338.
- Malaspina, J.-P.; Bodilis, H.; Giacomoni, L.; Marble, G. (1984) Indoor air pollution: study of two buildings in the Paris area. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 5, buildings, ventilation and thermal climate; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 499-504. Available from: NTIS, Springfield, VA; PB85-104222.
- Malm, W. C. (1986) Review of techniques for measuring atmospheric extinction. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-17.2.
- Malmstroem, T.-G.; Ahlgren, A. (1982) Efficient ventilation in office rooms. Environ. Int. 8: 401-408.
- Manchester, D. K.; Jacoby, E. H. (1981) Sensitivity of human placental monooxygenase activity to maternal smoking. Clin. Pharmacol. Ther. 30: 687-692.
- Manley, P. J.; Helmeste, R. H.; Tamura, G. T. (1984) Contaminant build-up in houses. Presented at: 5th AIC conference; October; Reno, NV.

- Mannis, M. J.; Tamaru, R.; Roth, A. M.; Burns, M.; Thirkill, C. (1986) Acanthamoeba sclerokeratitis: determining diagnostic criteria. *Arch. Ophthalmol.* 104: 1313-1317.
- Mantel, N. (1983) Epidemiologic investigations. Care in conduct, care in analysis, and care in reporting. *J. Cancer Res. Clin. Oncol.* 105: 113-116.
- Marinkovich, V. A.; Hill, A. (1975) Hypersensitivity alveolitis. *JAMA J. Am. Med. Assoc.* 231: 944-947.
- Marsh, G. M. (1982) Proportional mortality patterns among chemical plant workers exposed to formaldehyde. *Br. J. Ind. Med.* 39: 313-322.
- Marsh, G. M. (1983) Mortality among workers from a plastics producing plant: a matched case-control study nested in a retrospective cohort study. *JOM J. Occup. Med.* 25: 219-230.
- Marsinko, A. P. C.; Phillips, D. R.; Cordell, H. K. (1984) Determining residential firewood consumption. *Environ. Manage.* 8: 359-366.
- Martell, E. A. (1975) Tobacco radioactivity and cancer in smokers. *Am. Sci.* 63: 404-412.
- Martell, E. A. (1983) Alpha-Radiation dose at bronchial bifurcations of smokers from indoor exposure to radon progeny. *Proc. Natl. Acad. Sci. U. S. A.* 80: 1285-1289.
- Martell, E. A. (1984) Aerosol properties of indoor radon decay products. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 161-165.
- Martell, E. A. (1987) Critique of current lung dosimetry models for radon progeny exposure. In: Hopke, P. K., ed. *Radon and its decay products: occurrence, properties, and health effects*; April; New York, NY. Washington, DC: American Chemical Society; in press. (ACS symposium series).
- Martin, T. R.; Bracken, M. B. (1986) Association of low birth weight with passive smoke exposure in pregnancy. *Am. J. Epidemiol.* 124: 633-642.
- Martin, T. R.; Covert, D.; Butler, J. (1981) Inhalng volcano ash. In: Zwillich, C. W.; Cherniack, R. M., eds. *The 23rd Aspen lung conference: the environment and the lung*; June 1980; Aspen, CO. *Chest* 80: 85S-86S.
- Marutzky, R. (1986) Formaldehyd in Innenraeumen: zur Problematik von Beschwerdefaellen [Indoor formaldehyde: the difficulty of determining injury]. *Gesund. Ing. Haustech. Bauphys. Umwelttech.* 107: 327-334.

- Marx, J. J., Jr.; Arden-Jones, M. P.; Treuhaft, M. W.; Gray, R. L.; Motszko, C. S.; Hahn, F. F. (1981) The pathogenic role of inhaled microbial material in pulmonary mycotoxicosis as demonstrated in an animal model. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 76S-78S.
- Master, K. M. (1974) Air pollution in New Guinea: cause of chronic pulmonary disease among stone-age natives in the highlands. JAMA J. Am. Med. Assoc. 228: 1653-1655.
- Matsukura, S.; Taminato, T.; Kitano, N.; Seino, Y.; Hamada, H.; Uchihashi, M.; Nakajima, H.; Hirata, Y. (1984) Effects of environmental tobacco smoke on urinary cotinine excretion in nonsmokers: evidence for passive smoking. N. Engl. J. Med. 311: 828-832.
- Matsushita, H.; Mori, T. (1984) Nitrogen dioxide and nitrosamine levels in indoor air and side-stream smoke of cigarette. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 335-340.
- Matthews, T. G. (1982) Evaluation of a modified CEA Instruments, Inc. model 555 analyzer for the monitoring of formaldehyde vapor in domestic environments. Am. Ind. Hyg. Assoc. J. 43: 547-552.
- Matthews, T. G. (1986) Modeling and testing of formaldehyde emission characteristics of pressed-wood products. Report XVIII to the U. S. Consumer Product Safety Commission. Oak Ridge National Laboratory report no. ORNL/TM-9867.
- Matthews, T. G. (1987) Environmental chamber test methodology for characterizing organic vapors from solid emission sources. In: Symposium on the characterization of contaminant emissions from indoor sources; Chapel Hill, NC. Atmos. Environ. 21: 321-329.
- Matthews, T. G.; Fung, K. W.; Tromberg, B. J.; Hawthorne, A. R. (1986) Surface emission monitoring of pressed-wood products containing urea-formaldehyde resins. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 301-309.
- Matthews, T. G.; Fung, K. W.; Tromberg, B. J.; Hawthorne, A. R. (1986) Impact of indoor environmental parameters on formaldehyde concentrations in unoccupied research houses. J. Air Pollut. Control Assoc. 36: 1244-1249.
- Matthews, T. G.; Hawthorne, A. R.; Howell, T. C.; Metcalfe, C. E.; Gammage, R. B. (1982) Evaluation of selected monitoring methods for formaldehyde in domestic environments. Environ. Int. 8: 143-151.

- Matthews, T. G.; Reed, T. J.; Daffron, C. R.; Hawthorne, A. R. (n.d.) Environmental dependence of formaldehyde emissions from pressed-wood products: experimental studies and modeling. In: Proceedings of the 18th international Washington State University particleboard/composite materials symposium.
- Matthews, T. G.; Reed, T. J.; Tromberg, B. J.; Daffron, C. R.; Hawthorne, A. R. (1983) Formaldehyde emissions from combustion sources and solid formaldehyde resin containing products: potential impact on indoor formaldehyde concentrations and possible corrective measures. In: Proceedings of an Engineering Foundation conference on management of atmospheres in tightly enclosed spaces; October; Santa Barbara, CA. Atlanta, GA: American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.
- Mattsson, M. (1985) Climate measurements in a school before and after the implementation of a retrofit package. In: Fanger, P. O., CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 473-477.
- Maximilien, R.; Robe, M. C.; Roussel, C.; Sauve, A.; Uzzan, G. (1984) Influence of the way of living on indoor exposure: methodological study. Radiat. Prot. Dosim. 7: 259-262.
- May, H. A. (1979) Elevated radon levels in buildings: an investigation of potential sources in Region V arising from energy-conserving practices. Argonne, IL: Argonne National Laboratory, Radiological and Environment Research Division; annual report ANL-79-65 part 2; pp. 31-38.
- Mayer, E. (1985) Tagesgang der thermischen Behaglichkeit [Circadian rhythm of thermal comfort]? In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 141-146.
- McAulay, I. R.; Colgan, P. A. (1984) Gamma radiation levels in dwellings in the republic of Ireland. Radiat. Prot. Dosim. 7: 309-311.
- McCandless, R. (1984) Impact of residential wood combustion or measured particulate and PAH concentrations in Whitehorse, VT. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-70.6.
- McCann, J.; Horn, L.; Girman, J.; Nero, A. V. (1986) Potential risks from exposure to organic carcinogens in indoor air. Presented at: EPA symposium on the application of short-term bioassays in the analysis of complex environmental mixtures; October; Durham, NC.
- McCann, J.; Horn, L.; Girman, J.; Nero, A. V. (1986) Potential risks from exposure to organic compounds in indoor air. Berkeley, CA: Lawrence Berkeley Laboratory, Indoor Environment Program; report no. LBL-22473.

McCarthy, S. M.; Colome, S. D.; Spengler, J. D. (1984) Indoor and outdoor aerosols: a multivariate approach to source identification. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA; paper no. 84-33.6.

McCarthy, S. M.; Colome, S. D.; Newcomb, R. L. (1986) Cluster analysis of indoor and outdoor elemental aerosol data: structural interpretation and implication for health effects. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-68.2.

McCarthy, S. M.; Newcomb, R. L.; Colome, S. D. (1986) Development and application of a multivariate model for indentifying sources of indoor aerosol. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-7.5.

McClellan, R. O.; Bice, D. E.; Cuddihy, R. G.; Gillett, N. A.; Henderson, R. F.; Jones, R. K.; Mauderly, J. L.; Pickrell, J. A.; Shami, S. G.; Wolff, R. K. (1986) Health effects of diesel exhaust. In: Lee, S. D.; Schneider, T.; Grant, L. D. Verkerk, P. J., eds. *Aerosols: research risk assessment and control strategies*. Chelsea, MI: Lewis Pub., Inc.; pp. 597-615.

McClenny, W. A.; Lumpkin, T. A.; Pleil, J. D.; Oliver, K. D.; Bubacz, D. K.; Faircloth, J. W.; Daniels, W. H. (1986) Cannister-based VOC samplers. In: *Proceedings of the 1986 EPA/APCA symposium on measurement of toxic air pollutants*; April; Raleigh, NC; pp. 402-407.

McConnochie, K. M.; Roghmann, K. J. (1985) Predicting clinically significant lower respiratory tract illness in childhood following mold bronchiolitis. *Am. J. Dis. Child.* 139: 625-631.

McCrillis, R. C.; Merrill, R. G. (1985) Emission control effectiveness of a woodstove catalyst and emission measurement methods comparison. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-43.5.

McCullough, E. A.; Jones, B. W. (1985) A comparison of methods for estimating clothing insulation. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 71-76.

McCullough, R. S.; Letourneau, E. G.; Waight, P. J. (1981) A four factor model for estimating human radiation exposure to radon daughters in the home. *Health Phys.* 40: 299-305.

McCusker, K. T.; Hiller, F. C.; Mazumder, M. K.; Bone R. C. (1981) Effects of contemporary filters on cigarette smoke. In: Zwillich, C. W.; Cherniack, R. M., eds. *The 23rd Aspen lung conference: the environment and the lung*; June 1980; Aspen, CO. *Chest* 80: 80S-81S.

McDermott, M. (1962) Acute respiratory effects of the inhalation of coal-dust particles. *J. Physiol.* 162: 53P.

McFadden, J. E.; Beard, J. H., III; Moschandreas, D. J. (1978) Survey of indoor air quality health criteria and standards. Research Triangle Park, NC: U. S. Environmental Protection Agency, Office of Research and Development; EPA report no. EPA-600/7-78-027. Available from: NTIS, Springfield, VA: PB-278866.

McGrath, J. J.; Oyervides, J. (1983) Response of NO<sub>2</sub>-exposed mice to Klebsiella challenge. In: Lee, S. D.; Mustafa, M. G.; Mehlman, M. A., eds. International symposium on the biomedical effects of ozone and related photochemical oxidants, v. 5; March 1982; Pinehurst, NC. Princeton, NJ: Princeton, NJ: Princeton Scientific Publications; pp. 475-485. (Advances in modern environmental toxicology).

McGrath, J. J.; Smith, D. L. (1984) Respiratory responses to nitrogen dioxide inhalation. *J. Environ. Sci. Health Part A* 19: 417-431.

McGregor, R. G.; Gourgon, L. A. (1980) Radon and radon daughters in homes utilizing deep well water supplies, Halifax County, Nova Scotia . *J. Environ. Sci. Health Part A*15: 25-35.

McGregor, R. G.; Vasudev, P.; Letourneau, E. G.; McCullough, R. S.; Prantl, F. A.; Taniguchi, H. (1980) Background concentrations of radon and radon daughters in Canadian homes. *Health Phys.* 39: 285-289.

McKay, R. T.; Brooks, S. M.; Johnson, C. (1981) Isocyanate-induced abnormality of Beta-adrenergic receptor function. In: Zwillich, C. W.; Cherniak, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. *Chest* 80: 61S-63S.

McKenzie, R. L.; Bright, D. S.; Fletcher, R. A.; Hodgeson, J. A. (1982) Development of a personal exposure monitor for two sizes of inhalable particulates. *Environ. Int.* 8: 229-233.

McKerrow, C. B (1964) Chronic respiratory disease in Great Britain. *Arch. Environ. Health* 8: 182-187.

McLaughlin, J. P.; Jonassen, N. (1983) The intercalibration of a radon daughter detection system with a radon detection system. *Health Phys.* 45: 556-559.

McLaughlin, J. P.; O'Byrne, F. D. (1984) The role of daughter product plateout in passive radon detection. *Radiat. Prot. Dosim.* 7: 115-119.

McLemore, T. L.; Roggli, V.; Marshall, M. V.; Lawrence, E. C.; Greenberg, S. D.; Stevens, P. M. (1981) Comparison of phagocytosis of uncoated vs. coated asbestos fibers by cultured human pulmonary alveolar macrophages. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. *Chest* 80: 39S-42S.

McNall, P. E. (1985) Indoor air quality modeling workshop report. Gaithersburg, MD: U. S. Department of Commerce, National Bureau of Standards; NBSIR report no. NBSIR 85-3150.

- McNall, P. E., Jr. (1981) Building ventilation measurements, predictions, and standards. In: Symposium on health aspects of indoor air pollution; May; New York, NY. Bull. N. Y. Acad. Med. 57: 1027-1046.
- McNall, P. E., Jr. (1986) Control of indoor air quality by means of HVAC systems. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 541-547.
- McNall, P.; Walton, G.; Silberstein, S.; Axley, J.; Ishiguro, K.; Grot, R.; Kusuda, T. (1985) Indoor air quality modeling: phase I report framework for development of general models. Gaithersburg, MD: U. S. Department of Commerce, National Bureau of Standards; report no. NBSIR 85-3265.
- McPherson, R. B. (1980) Environmental radon and radon daughter dosimetry in the respiratory tract. Health Phys. 39: 929-936.
- Meckel, L. (1982) Teppichbelaege und Luftverunreinigung [Carpeting and air pollution]? In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 129-136. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Meese, G. B.; Wentzel, J. D.; Kok, R.; Lewis, M. I.; Schiefer, R. D. (1985) Differences in subjective comfort votes between workers in similar thermal environments. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 109-114.
- Melcher, R. G.; Garner, W. L.; Severs, L. W.; Vaccaro, J. R. (1978) Collection of chlorpyrifos and other pesticides in air on chemically bonded sorbents. Anal. Chem. 50: 251-255.
- Melia, J.; Florey, C.; Sittampalam, Y.; Watkins, C. (1983) The relation between respiratory illness in infants and gas cooking in the UK: a preliminary report. In: Air quality VIth world congress: [proceedings of the International Union of Air Pollution Prevention Association]; May; Paris, France. Paris, France: SEPIC (APPA); pp. 263-269.
- Melia, R. J. W.; Florey, C. du V.; Chinn, S. (1979) The relation between respiratory illness in primary school children and the use of gas for cooking. I - Results from a national survey. Int. J. Epidemiol. 8: 333-338.
- Melia, R. J. W.; Florey, C. du V.; Morris, R. W.; Goldstein, B. D.; John, H. H.; Clark, D.; Craighead, I. B.; Mackinlay, J. C. (1982) Childhood respiratory illness and the home environment. II. Association between respiratory illness and nitrogen dioxide, temperature and relative humidity. Int. J. Epidemiol. 11: 164-169.

- Melia, R. J. W.; Florey, C. du V.; Morris, R. W.; Goldstein, B. D.; Clark, D.; John, H. H. (1982) Childhood respiratory illness and the home environment. I. Relations between nitrogen dioxide, temperature and relative humidity. *Int. J. Epidemiol.* 11: 155-163.
- Melius, J.; Wallingford, K.; Carpenter, J.; Keenlyside, R. (1984) Indoor air quality: the NIOSH experience (evaluation of environmental office problems). *Am. Conf. Ind. Hyg. Report* 10: 3-7.
- Mellinger, P. J.; Sever, L. E. (1986) Health risks from indoor formaldehyde exposures in northwest weatherized residences. Richland, Washington: Battelle's Pacific Northwest Laboratory; report no. DE-AC06-76RL0; PNL-6058.
- Merrill, R. G., Jr.; Lewtas, J.; Hall, R. E. (1983) Source assessment sampling system (SASS) versus dilution tunnel sampling. In: Waters, M. S.; Sandhu, S. S.; Lewtas, J.; Claxton, L.; Chernoff, N.; Nesnow, S., eds. Short-term bioassays in the analysis of complex environmental mixtures III; New York, NY: Plenum Press; p. 17.
- Merrill, R. G.; Steiber, R. S.; Martz, R. F.; Nelms, L. H. (1987) Screening methods for the identification of organic emissions from indoor air pollution sources. *Atmos. Environ.* 21: 331-336.
- Metzger, W. J.; Patterson, R.; Fink, J.; Semerdjian, R.; Roberts, M. (1976) Sauna-takers disease: hypersensitivity pneumonitis due to contaminated water in a home sauna. *JAMA J. Am. Med. Assoc.* 236: 2209-2211.
- Meyer, B. (1983) Indoor air quality. Reading, MA: Addison-Wesley Publishing Co., Inc.
- Meyer, B. (1986) Formaldehyde exposure from building products. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 283-288.
- Meyer, B.; Hermanns, K. (1984) Formaldehyde indoor air problems. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-35.2.
- Meyer, B.; Hermanns, K. (1985) Reducing indoor air formaldehyde concentrations. *J. Air Pollut. Control Assoc.* 35: 816-821.
- Michelson, I.; Tourin, B. (1966) Comparative method for studying costs of air pollution. *Public Health Rep.* 81: 505-511.
- Michelson, I.; Tourin, B. (1967) Report on study of validity of extension of economic effects of air pollution damage from upper Ohio river valley to Washington, DC area. Environmental Health and Safety Research Associates.

- Michelson, I.; Tourin, B. (1968) The household costs of living in polluted air versus the costs of controlling air pollution in the twin Kansas cities metropolitan area. Report to the U. S. Public Health Service conference on air pollution abatement in the twin Kansas cities metropolitan area; New Rochelle, NY: Environmental Health and Safety Research Associates.
- Michelson, I.; Tourin, B. (1968) The household cost of air pollution in Connecticut. Report to the Connecticut State Department of Health; New Rochelle, NY: Environmental Health and Safety Research Associates.
- Mierzynski, S.; Nawrocki, W.; Piotrowski, J.; Trzeciakiewicz, Z. (1985) Aerodynamical problems of pollution sources in industrial halls. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 459-466.
- Miksch, R. R.; Anthon, D. W.; Fanning, L. Z.; Hollowell, C. D.; Revzan, K. I.; Glanville, J. (1981) Modified pararosaniline method for the determination of formaldehyde in air. *Anal. Chem.* 53: 2118-2123.
- Miksch, R. R.; Hollowell, C. D.; Schmidt, H. E. (1982) Trace organic chemical contaminants in office spaces. *Environ. Int.* 8: 129-137.
- Miles, J. C.; Stares, E. J.; Cliff, K. D.; Sinnaeve, J. (1984) Results from an international intercomparison of techniques for measuring radon and radon decay products. *Radiat. Prot. Dosim.* 7: 169-173.
- Milham, S., Jr. (1985) Mortality in workers exposed to electromagnetic fields. *EHP Environ. Health Perspect.* 62: 297-300.
- Miller, D. P. (1987) Analysis of nitrite in NO<sub>2</sub> diffusion tubes using ion chromatography. U. S. Environmental Protection Agency; EPA report no. EPA-600/2-87-
- Miller, F. J.; Martonen, T. B.; Menache, M. G.; Graham, R. C.; Spektor, D. M.; Lippmann, M. (1986) Influence of breathing mode and activity level on the regional deposition of inhaled particles and implications for regulatory standards. *Ann. Occup. Hyg.* (in press).
- Miller, K. M.; Beck, H. L. (1984) Indoor gamma and cosmic ray exposure rate measurements using a Ge spectrometer and pressurised ionisation chamber. *Radiat. Prot. Dosim.* 7: 185-189.
- Miller, M. M.; Patterson, R.; Fink, J. N.; Roberts, M. (1976) Chronic hypersensitivity lung disease with recurrent episodes of hypersensitivity pneumonitis due to a contaminated central humidifier. *Clin. Allergy* 6: 451-462.
- Milstein, C. (1986) From antibody structure to immunological diversification of immune response. *Science (Washington, DC)* 231: 1261-1268.

- Minamino, O. (1985) A study on the outdoor air supply for occupants to control tobacco smoke odor. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 351-356.
- Mitchell, D. J.; Ireland, R. B.; Hume, A.; McVey, E.; Blakey, D. L. (1974) Epidemiologic notes and reports: carbon monoxide poisoning - Mississippi. Wkly. Morb. Mortal. Rep. 23(1): 1.
- Mitchell, R. I.; Smithson, G. R., Jr.; Price, B. P.; Harris, E. F. (1984) A pilot study to obtain 24-hour air pollution exposure profiles. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 75-80. Available from: NTIS, Springfield, VA; PB85-104214.
- Mitchell, R. I.; Williams, R.; Cote, R. W.; Lanese, R. R.; Keller, M. D. (n.d.) Household survey of the incidence of respiratory disease in relation to environmental pollutants. pp. 47-62.
- Miyazaki, T. (1984) Adsorption characteristics of NO<sub>x</sub> by several kinds of interior materials. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 103-110. Available from: NTIS, Springfield, VA; PB85-104214.
- Moeller, D. W.; Fujimoto, K. (1984) Cost evaluation of control measures for indoor radon progeny. Health Phys. 46: 1181-1193.
- Molhave, L. (1977) The relation between the free formaldehyde concentration in stored (urea-formaldehyde) chipboard, and the formaldehyde concentration in the air. Holzforsch. Holzverwert. 29: 73-74.
- Molhave, L. (1980) The effect of a chemical surface-treatment on formaldehyde emission from particleboards. Holzforsch. Holzverwert. 32: 137-138.
- Molhave, L. (1982) Indoor air pollution due to organic gases and vapours of solvents in building materials. Environ. Int. 8: 117-127.
- Molhave, L. (1982) Die Modell-Raum Methode fuer die Messung der formaldehyd-emission von Holzspanplatten [The model room method for measurement of formaldehyde emission from particle boards]. Holzforsch. Holzverwert. 34: 24-27.
- Molhave, L. (1982) Tentative guidelines for setting of emission standards for gases and vapours from building materials. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 299-304. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

- Molhave, L. (1985) Volatile organic compounds as indoor air pollutants. In: Gammage, R. B.; Kaye, S. V., eds. Indoor air and human health: proceedings of the seventh life sciences symposium; October 1984; Knoxville, TN. Chelsea, MI: Lewis Publishing, Inc.; pp. 403-413.
- Molhave, L. (1986) Indoor air quality in relation to sensory irritation due to volatile organic compounds. ASHRAE Trans. 92(Pt. 1): in press.
- Molhave, L. (1987) Characterization of emissions from building materials, building occupants and consumer products: laboratory studies. In: Symposium on the characterization of contaminant emissions from indoor sources; Chapel Hill, NC. Atmos. Environ. 21: 313-314.
- Molhave, L.; Bach, B. (1985) Indeklimagener og luftforurening med flygtige organiske forbindelser [Indoor climatic complaints and atmospheric pollution with volatile organic compounds]. Ugeskr. Laeg. 147: 4032-4036.
- Molhave, L.; Bach, B.; Pedersen, O. F. (1984) Human reactions during controlled exposures to low concentrations of organic gases and vapors known as normal indoor air pollutants. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 431-436. Available from: NTIS, Springfield, VA; PB85-104206.
- Molhave, L.; Bach, B.; Pedersen, O. F. (1986) Human reactions to low concentrations of volatile organic compounds. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 167-175.
- Molhave, L.; Bisgaard, P.; Dueholm, S. (1983) A mathematical model of indoor air pollution due to formaldehyde from urea-formaldehyde glued particaleboards. Atmos. Environ. 17: 2105-2108.
- Molhave, L.; Lundqvist, G. R.; Andersen, I. (1985) The atmospheric environment in six efficient single family houses. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 201-206.
- Molhave, L.; Moller, J. (1978) Indoor air pollution due to building materials. In: Fanger, P. O.; Valbjorn, O., eds. Indoor climate: effects on human comfort, performance, and health in residential, commerical, and light-industry buildings: proceedings of the first international indoor climate symposium; August-September; Copenhagen, Denmark. Copenhagen, Denmark: Danish Building Research Institute; pp. 89-110.
- Molhave, L.; Moller, J. (1978) The atmospheric environment in modern Danish dwellings - measurements in 39 flats. In: Fanger, P. O.; Valbjorn, O., eds. Indoor climate: effects on human comfort, performance, and health in residential, commerical, and light-industry buildings: proceedings of the first international indoor climate symposium; August-September; Copenhagen, Denmark. Copenhagen, Denmark: Danish Building Research Institute; pp. 171-186.

- Molhave, L.; Moller, J.; Andersen, I. (1979) Luftens indhold af gasarter, damp og stov i nyere boliger [The content of gases, vapours and dust in the indoor air of modern homes]. Ugeskr. Laeg. 141: 956-961.
- Monsen, R. M.; Sterling, D. A.; Stock, T. H. (1984) The use of field sampling instrumentation for the monitoring of non-industrial environments. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 209-214. Available from: NTIS, Springfield, VA; PB85-104214.
- Monteith, D. K.; Stock, T. H.; Seifert, W. E., Jr. (1984) Sources and characterization of organic air contaminants inside manufactured housing. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 285-290. Available from: NTIS, Springfield, VA; PB85-104214.
- Morandi, M. T.; Lioy, P. J.; Daisey, J. M. (1986) Application of receptor modeling methods to extractable organic matter in Newark, New Jersey. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-25.4.
- Morandi, M. T.; Stock, T. H.; Contant, C. F. (1986) Characterization of indoor microenvironmental exposures to respirable particulate matter. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-67.2.
- Morawska, L. (1983) Influence of sealants on <sup>222</sup>radon emanation rate from building materials. Health Phys. 44: 416-418.
- Morey, P. R. (n.d.) Part two: overview. In: Gammage, R. B.; Kaye, S. V., eds. Indoor air and human health. Chelsea, MI: Lewis Publishers, Inc.; pp. 133-137.
- Morey, P. R. (1982) Environmental data report HHE 82-344: "Dallas federal complex."
- Morey, P. R. (1984) Case presentations: problems caused by moisture in occupied spaces of office buildings. Ann. Am. Conf. Gov. Ind. Hyg. 10: 121-127.
- Morey, P. R. (1984) Microbial agents associated with building HVAC systems. In: Indoor pollution: the architects' response, a national symposium; November; San Francisco, CA. American Institute of Architects; pp. 1.4-1.19.
- Morey, P. R. (1987) Sources of microorganisms and corrective actions that may be useful in reducing microbial contamination in buildings. In: Proceedings of the Georgia Tech IAQ symposium.

- Morey, P. R.; Hodgson, M. J.; Sorenson, W. G.; Kullman, G. J.; Rhodes, W. W.; Visvesvara, G. S. (1984) Environmental studies in moldy office buildings: biological agents, sources and preventive measures. *Ann. Am. Conf. Gov. Ind. Hyg.* 10: 21-35.
- Morey, P. R.; Hodgson, M. J.; Sorenson, W. G.; Kullman, G. J.; Rhodes, W. W.; Visvesvara, G. S. (1986) Environmental studies in moldy office buildings. *ASHRAE Trans.* 92: 399-419.
- Morey, P. R.; Jones, W. G.; Clere, J. L.; Sorenson, W. G. (1987) Studies on sources of airborne microorganisms and on indoor air quality in a large office building. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 500-509.
- Morey, P. R.; Rundus, R. E. (1984) HVAC system operational parameters affect airborne fungal levels in occupied spaces. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 247-251.
- Morey, P.; Sorenson, W. (1984) Gateway building, Philadelphia, Pennsylvania. HETA 84-008.
- Morgan, K. T.; Jiang, X.-Z.; Starr, T. B.; Kerns, W. D. (1986) More precise localization of nasal tumors associated with chronic exposure of F-344 rats to formaldehyde gas. *Toxicol. Appl. Pharmacol.* 82: 264-271.
- Morgan, M. V.; Samet, J. M. (1986) Radon daughter exposures of New Mexico U miners, 1967-1982. *Health Phys.* 50: 656-662.
- Morin, R. S. (1985) The bacterial mutagenicity of selected indoor air particulate emissions arising from combustion processes [doctoral]. Chapel Hill, NC: University of North Carolina.
- Morinaga, H.; Mifune, M.; Furuno, K. (1984) Radioactivity of water and air in Misasa Spa, Japan. *Radiat. Prot. Dosim.* 7: 295-297.
- Morrow, P. E. (1984) Toxicological data on NO<sub>x</sub>: an overview. *J. Toxicol. Environ. Health* 13: 205-227.
- Moschandreas, D. (1986) Formaldehyde: sources, methods of analysis, exposure and health effects. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 15-17.
- Moschandreas, D. J. (1981) Exposure to pollutants and daily time budgets of people. In: *Symposium on health aspects of indoor air pollution*; May; New York, NY. *Bull. N. Y. Acad. Med.* 57: 845-859.

- Moschandreas, D. J. (1985) Indoor air quality in typical residences. In: Walsh, P. J.; Dudney, C. S.; Copenhaver, E. D., eds. *Indoor air quality*. Boca Raton, FL: CRC Press, Inc.; pp. 57-68.
- Moschandreas, D. J., ed. (1978) Indoor air pollution in the residential environment, volume II-field monitoring protocol, indoor episodic pollutant release experiments and numerical analyses. Gaithersburg, MD: GEOMET, Inc.; EPA report no. EPA-600/7-78-229b. Available from: NTIS, Springfield, VA; PB-291000.
- Moschandreas, D. J.; Pelton, D. J.; Berg, D. R. (1981) The effects of woodburning on indoor pollutant concentrations. Presented at: 74th annual meeting of the Air Pollution Control Association; June; Philadelphia, PA. Pittsburgh, PA: Air Pollution Control Association; paper no. 81-22.2.
- Moschandreas, D. J.; Rector, H. E. (1981) Radon and aldehyde concentrations in the indoor environment. Berkeley, CA: Lawrence Berkeley Lab; report no. LBL-12590.
- Moschandreas, D. J.; Rector, H. E.; Tierney, P. O. (1981) A survey of residential radon levels. Rockville, MD: GEOMET Technologies, Inc.; report no. GTI ES-877.
- Moschandreas, D. J.; Rector, H. E. (1982) Indoor radon concentrations. *Environ. Int.* 8: 77-82.
- Moschandreas, D. J.; Relwani, S. M.; Macriss, R. A.; Cole, J. T. (1984) Differences and similarities of two techniques used to measure emission rates from unvented gas appliances. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 375-379. Available from: NTIS, Springfield, VA; PB85-104214.
- Moschandreas, D. J.; Relwani, S. M.; Macriss, R. A.; Cole, J. T. (1986) A comparison of emission rates of unvented gas appliances measured by two different methods. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate*; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 241-246.
- Moschandreas, D. J.; Relwani, S.; Johnson, D.; Billick, I. (1986) Emission rates from unvented gas appliances. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate*; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 247-253.
- Moschandreas, D. J.; Relwani, S. M.; Billick, I. H.; Macriss, R. A. (1987) Emission rates from range-top burners - assessment of measurement methods. In: *Symposium on the characterization of contaminant emissions from indoor sources*; Chapel Hill, NC. *Atmos. Environ.* 21: 285-289.

- Moschandreas, D. J.; Stark, J. W. C.; McFadden, J. E.; Morse, S. S. (1978) Indoor air pollution in the residential environment. Vol. I - data collection, analysis and interpretation. Gaithersburg, MD: GEOMET, Inc.; EPA report no. EPA 600/7-78-229A. Available from: NTIS, Springfield, VA; PB-290999/2.
- Moschandreas, D. J.; Winchester, J. W.; Nelson, J. W.; Burton, R. M. (1979) Fine particle residential indoor air pollution. *Atmos. Environ.* 13: 1413-1418.
- Moschandreas, D. J.; Zabranski, J., Jr.; Rector, H. E. (1980) The effects of woodburning on the indoor residential air quality. *Environ. Int.* 4: 463-468.
- Moschandreas, D. J.; Zabransky, J.; Pelton, D. N. (1981) Comparison of indoor-outdoor pollution. Electric Power Research Institute; EPRI report no. EPRI-EA-1733.
- Moschandreas, D. J.; Zabransky, J., Jr. (1982) Spatial variation of carbon monoxide and oxides of nitrogen concentrations inside residences. *Environ. Int.* 8: 177-183
- Moses, D. O. (1986) The U. S. Department of Energy's role in indoor air quality. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-35.10.
- Mostardi, R. A.; Ely, D. L.; Woebkenberg, N. R.; Conlon, M. (1981) Air pollution and health effects in children residing in Akron, Ohio. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 26S-27S.
- Mostardi, R. A.; Martell, R. (1975) The effects of air pollution on pulmonary functions in adolescents. *Ohio J. Sci.* 75: 65-69.
- Mudarri, D. H. (1986) Toward a national strategy for the mitigation of indoor air pollution. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-35.8.
- Mueller Associates, Inc. (1986) Indoor air quality environmental information handbook: radon. Washington, DC: U. S. Department of Energy, Office of Environmental Analysis; DOE/PE/72013-2. Available from: NTIS, Springfield, VA; DE86-005006.
- Mueller, P. K.; McDade, C. E. (1986) The scenes - measurement of aerosol properties and visual air quality in the southwestern U.S. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-17.3.

- Muggenburg, B. A.; Boecker, B. B.; Diel, J. H.; Snipes, M. B. (1981) Observations on the lung retention of inhaled, relatively insoluble, environmentally-related particles. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 19S-20S.
- Muller, J.; Wheeler, J. F.; Gentleman, G. S.; Kusiak, R. A. (1983) Study of mortality of Ontario miners: 1955-1977, part 1. Toronto, Canada: Ontario Ministry of Labour.
- Multiple Risk Factor Intervention Trial Research Group. (1982) Multiple risk factor intervention trial. Risk factor changes and mortality results. JAMA J. Am. Med. Assoc. 248: 1465-1477.
- Mumford, J. L.; He, X. Z.; Chapman, R. S.; Cao, S. R.; Harris, D. B.; Li, X. M.; Xian, Y. L.; Jiang, W. Z.; Xu, C. W.; Chuang, J. C.; Wilson, W. E.; Cooke, M. (1987) Lung cancer and indoor air pollution in Xuan Wei, China. Science (Washington, DC) 235: 217-235.
- Mumford, J. S.; Harris, D. B.; Williams, K.; Chuang, J. C.; Cooke, M. (1986) Indoor air sampling and mutagenicity studies related to emissions from unvented coal combustion. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-6.5.
- Mumford, J.; Lewtas, J. (1982) Mutagenicity and cytotoxicity of coal fly ash from fluidized-bed and conventional combustion. J. Toxicol. Environ. Health 10: 565.
- Murphy, B. L.; Yocom, J. E. (1986) Migration factors for particulates entering the indoor environment. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-7.2.
- Murphy, M. J.; Stickford, G. H.; Locklin, D. W.; Wensky, A. K. (1986) A technique to survey indoor halocarbon levels using flame-oxidation and condensate analysis. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-37.2.
- Murphy, S. D. (1983) General principles in the assessment of toxicity of chemical mixtures. EHP Environ. Health Perspect. 48: 141-144.
- Murray, D. R.; Atwater, M. A.; Yocom, J. E. (1986) Assessment of the costs of materials damage from air pollution in Los Angeles, California. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-85.9.
- Mussalo-Rauhamaa, H.; Leppanen, A.; Salmela, S. S.; Pyysalo, H. (1986) Cigarettes as a source of some trace and heavy metals and pesticides in man. Arch. Environ. Health 41: 49-55.

Mustafa, M. G.; Elsayed, N. M.; von Dohlen, F. M.; Hassett, C. M.; Postlethwait, E. M.; Quinn, C. L.; Graham, J. A.; Gardner, D. E. (1984) A comparison of biochemical effects of nitrogen dioxide, ozone, and their combination in mouse lung. I. Intermittent exposures. *Toxicol. Appl. Pharmacol.* 72: 82-90.

Mustonen, R. (1984) Methods for evaluation of radiation from building materials. *Radiat. Prot. Dosim.* 7: 235-238.

Mustonen, R. (1984) Natural radioactivity in and radon exhalation from Finnish building materials. *Health Phys.* 46: 1195-1203.

Nagasawa, Y. (1985) Modellversuche zur Ermittlung des Lueftungseffektes in zwangsbelueteten Raeumen [Model experiments to investigate ventilation effects in mechanically ventilated rooms]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 497-502.

Nagda, N. L.; Fortmann, R. C.; Koontz, M. D.; Rector, H. E. (1985) Comparison of instrumentation for microenvironmental monitoring of respirable particulates. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-30A.1

Nagda, N. L.; Fortmann, R. C.; Koontz, M. D.; Rector, H. E. (1986) Air infiltration and building factors: comparison of measurement methods. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-16.1.

Nagda, N. L.; Koontz, M. D.; Young, C. L. (1983) Indoor components of 24-hour carbon monoxide exposures. Presented at: 76th annual meeting of the Air Pollution Control Association; June; Atlanta, GA. Pittsburgh, PA: Air Pollution Control Association; paper 83-64.4.

Nagda, N. L.; Koontz, M. D. (1985) Microenvironmental and total exposures to carbon monoxide for three population subgroups. *J. Air Pollut. Control Assoc.* 35: 134-137.

Nagda, N. L.; Koontz, M. D.; Billick, I. H. (1985) Impact of ventilation practices on levels of gas combustion products. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 227-232.

Nagda, N. L.; Rector, H. E. (1983) Guidelines for monitoring indoor air quality. Rockville, MA: Geomet Technologies, Inc.; EPA contract no. EPA-68-02-3679.

Nagda, N. L.; Rector, H. E.; Wallace, L. A. (1984) Guidelines for monitoring indoor air quality. Washington, DC: U. S. Environmental Protection Agency, Office of Monitoring Systems and Quality Assurance; EPA report no. EPA-600/S4-83-046.

- Nakanishi, Y.; Schneider, E. L. (1979) In vivo sister-chromatid exchange: a sensitive measure of DNA damage. *Mutat. Res.* 60: 329-337.
- Narayanan, R. L.; Lancaster, B. W. (1973) Household maintenance costs and particulate air pollution. *Clean Air* (Melbourne, Australia) 7: 10-13.
- Nasralla, M. M. (1980) Studies on indoor air quality in Egypt. *Environ. Int.* 4: 469-473.
- National Academy of Sciences. (1978) Chloroform, carbon tetrachloride and other halomethanes. Washington, DC: National Academy Press.
- National Council on Radiation Protection and Measurements. (1984) Evaluation of occupational and environmental exposures to radon and radon daughters in the United States: recommendations of the National Council on Radiation Protection and Measurements. Bethesda, MD: National Council on Radiation Protection and Measurements; NCRP report no. 78.
- National Council on Radiation Protection and Measurements. (1984) Exposures from the uranium series with emphasis on radon and its daughters. Bethesda, MD: National Council on Radiation Protection and Measurements; NCRP report no. 77.
- National Institute for Occupational Safety and Health. (1977) Criteria for recommended standard...occupational exposure to alkanes, (C5-C8). Cincinnati, OH: Department of Health, Education and Welfare; publication no. 77-151.
- National Institute of Occupational Safety and Health. (1985) Evaluation of epidemiologic studies examining the lung cancer mortality of under ground miners. Cincinnati, OH: Centers for Disease Control.
- National Research Council. (1972) Biologic effects of atmospheric pollutants: particulate polycyclic organic matter. Washington, DC: National Academy of Sciences.
- National Research Council. (1976) Vapor-phase organic pollutants: volatile hydrocarbons and oxidation products. Washington, DC: National Academy of Sciences. (Medical and biologic effects of environmental pollutants).
- National Research Council. (1976) Nitrogen oxides. Washington, DC: National Academy of Sciences.
- National Research Council. (1977) Carbon monoxide. Washington, DC: National Academy of Sciences; EPA report no. EPA 600/1-77-034. Available from: NTIS, Springfield, VA; PB-274965.
- National Research Council. (1977) Hydrogen sulfide. Washington, DC: National Academy of Sciences.
- National Research Council. (1979) Odors from stationary and mobile sources. Washington, DC: National Academy of Sciences.
- National Research Council. (1979) Airborne particles. Baltimore, MD: University Park Press.

- National Research Council. (1980) The effects on populations of exposure to low levels of ionizing radiation: 1980. Washington, DC: National Academy Press.
- National Research Council. (1981) Formaldehyde and other aldehydes. Washington, DC: National Academy Press.
- National Research Council. (1981) Indoor pollutants. Washington, DC: National Academy Press.
- National Research Council. (1983) Polycyclic aromatic hydrocarbons: evaluation of sources and effects. Washington, DC: National Academy Press.
- National Research Council. (1983) An assessment of the health risks of morpholine and diethylaminoethanol. Washington, DC: National Academy Press.
- National Research Council. (1986) The airliner cabin environment: air quality and safety. Washington, DC: National Academy Press.
- National Research Council. (1986) Environmental tobacco smoke: measuring exposures and assessing health effects. Washington, DC: National Academy Press.
- National Research Council. (1986) Preservation of historical records. Washington, DC: National Academy Press.
- National Research Council. (1986) Indoor pollutants. Washington, DC: National Academy Press.
- Natush, D. F.; Wallace, J. (1973) Concentration of toxic species in submicron airborne particles - the lungs as a preferential absorption site. In: Proceedings of the 66th annual meeting of the AIChE; November; Philadelphia, PA. Paper 190.
- Naylor, M. N. (1985) Air pollution from fireplaces in Las Vegas, Nevada. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-43.1.
- Nazaroff, W. W. (1984) Optimizing the total-alpha three-count technique for measuring concentrations of radon progeny in residences. *Health Phys.* 46: 395-405.
- Nazaroff, W. W.; Boegel, M. L.; Hollowell, C. D.; Roseme, G. D. (1981) The use of mechanical ventilation with heat recovery for controlling radon and radon-daughter concentrations in houses. *Atmos. Environ.* 15: 263-270.
- Nazaroff, W. W.; Boegel, M. L.; Nero, A. V. (1981) Measuring radon source magnitude in residential buildings. Berkeley, CA: Lawrence Berkeley Lab; report LBL-12484.
- Nazaroff, W. W.; Cass, G. R. (1986) Mathematical modeling of chemically reactive pollutants in indoor air. *Environ. Sci. Technol.* 20: 924-934.

- Nazaroff, W. W.; Doyle, S. M. (1985) Radon entry into houses having a crawl space. *Health Phys.* 48: 265-281.
- Nazaroff, W. W.; Feustel, H.; Nero, A. V.; Revzan, K. L.; Grimsrud, D. T.; Essling, M. A.; Toohey, R. E. (1984) Radon transport into a single-family house with a basement. Berkeley, CA: Lawrence Berkeley Laboratory; report LBL-16572.
- Nazaroff, W. W.; Nero, A. V. (1984) Transport of radon from soil into residences. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 15-20.
- Nazaroff, W. W.; Offermann, F. J.; Robb, A. W. (1983) Automated system for measuring air-exchange rate and radon concentration in houses. *Health Phys.* 45: 525-537.
- Neal, R. A. (1983) Protocol for testing the toxicity of chemical mixtures. *EHP Environ. Health Perspect.* 48: 137-139.
- Nelms, L. H.; Mason, M. A.; Tichenor, B. A. (1986) The effects of ventilation rates and product loading on organic emission rates from particleboard. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 469-485.
- Nelms, L. H.; Mason, M. A.; Tichenor, B. A. (1987) Determination of emission rates and concentration levels of p-dichlorobenzene. Accepted for presentation at: 80th annual meeting of the Air Pollution Control Association; June; New York, NY. Pittsburgh, PA: Air Pollution Control Association; paper no. 87-.
- Nero, A. V. (1983) Indoor radiation exposures from  $^{222}\text{Rn}$  and its daughters: a view of the issue. *Health Phys.* 45: 277-288.
- Nero, A. V. (1983) Airborne radionuclides and radiation in buildings: a review. *Health Phys.* 45: 303-322.
- Nero, A. V. (1983) Radon in energy-efficient earth-sheltered structure. Berkeley, CA: Lawrence Berkeley Lab; report LBL-14959.
- Nero, A. V. (1985) Indoor concentrations of radon 222 and its daughters: sources, range, and environmental influences. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-19346.
- Nero, A. V. (1986) Radon in dwellings: exposure and risk analysis. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 19-22.

- Nero, A. V.; Berk, J. V.; Boegel, M. L.; Hollowell, C. D.; Ingersoll, J. G.; Nazaroff, W. W. (1981) Radon daughter exposures in energy efficient buildings. Berkeley, CA: Lawrence Berkeley Lab; report LBL-11052.
- Nero, A. V.; Boegel, M. L.; Hollowell, C. D.; Ingersoll, J. G.; Nazaroff, W. W.; Revzan, K. L. (1980) Radon and its daughters in energy efficient buildings. In: Vohra, K. G., et al., eds. Natural radiation environment. New Dehli, India: Wiley Eastern Ltd.; pp. 473-480.
- Nero, A. V.; Boegel, M. L.; Hollowell, C. D.; Ingersoll, J. G.; Nazaroff, W. W. (1983) Radon concentrations and infiltration rates measured in conventional and energy-efficient houses. *Health Phys.* 45: 401-405.
- Nero, A. V.; Nazaroff, W. W. (1981) Distribution of radon concentrations and source magnitudes. Berkeley, CA: University of California, Lawrence Berkeley Laboratory; report no. LBL-12565.
- Nero, A. V.; Nazaroff, W. W. (1984) Characterising the source of radon indoors. In: Clemente, G. F.; O'Riordan, M. C.; Sinnaeve, J., eds. Indoor exposure to natural radiation and related risk assessment: prodeedings of an international seminar; October 1983; Anacapri, Italy. *Radiat. Prot. Dosim.* 7: 23-29.
- Nero, A. V.; Schnet, M. B.; Nasaroff, W. W.; Reuzan, K. L. (1984) Distribution of airborne radon-222 concentrations in U.S. homes. Berkeley, CA: Lawrence Berkeley Laboratories; LBL-18274.
- Nero, A. V.; Schwehr, M. B.; Nazaroff, W. W.; Revzan, K. L. (1986) Distribution of airborne radon-222 concentrations in U.S. homes. *Science* (Washington, DC) 234: 992-997.
- Nero, A. V.; Sextro, R. G.; Doyle, S. M.; Moed, B. A.; Nazaroff, W. W.; Revzan, K. L.; Schwehr, M. B. (1985) Characterizing the sources, range, and environmental influences of radon 222 and its decay products. *Sci. Total Environ.* 45: 233-244.
- Nero, A., Jr. (1986) The indoor radon story. *Technol. Rev.* 89: 28-40.
- Nesnow, S.; Argus, M.; Bergman, H.; Chu, K. Frith, C.; Helmes, T.; McGaughy, R.; Ray, V.; Slaga, T. J.; Tennant, R.; Weisberger, E. (1986) Chemical carcinogens: a review and analysis of the literature of selected chemicals and the establishment of the Gene-Tox Carcinogen Data Base. *Mutat. Res.* 185: 1-195.
- Nesnow, S.; Evans, C.; Stead, A.; Creason, J.; Slaga, T. J.; Triplett, L. L. (1982) Skin carcinogenesis studies of emission extracts. In: Lewtas, J., ed. Toxicological effects of emissions from diesel engines. New York, NY: Elsevier Science Publishing Co., Inc.; p. 295.
- Nesnow, S.; Triplett, L.; Slaga, T. J. (1982) Comparative tumor-initiating activity of complex mixtures from environmental particulate emissions on SENCAR mouse skin. *JNCI J. Natl. Cancer Inst.* 68: 829.

- Neulicht, R. M.; Core, J. (1982) The impact of residential wood combustion appliances on indoor air quality. In: Proceedings of the Air Pollution Control Association specialty conference on residential wood and coal combustion; March; Louisville, KY. Pittsburgh, PA: Air Pollution Control Association; pp. 240-252.
- New York State Energy Research and Development Authority. (1985) Indoor air quality, infiltration and ventilation in residential buildings. New York, NY: New York State Energy Research and Development Authority; NYSERDA report 85-10.
- Nicholson, W. J. (1986) Asbestos health effects update. Research Triangle Park, NC: U. S. Environmental Protection Agency, Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA/600/8-84-003F. Available from: NTIS, Springfield, VA; PB86-242864/AS.
- Nicolas, C. (1985) Evaluation des performance d'une ventilation hygromodulante [Analysis of an exhaust air flow modulation]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 339-344.
- Niden, A. H. (1971) The effects of low levels carbon monoxide on the fine structure of the terminal airways. Am. Rev. Respir. Dis. 103: 898.
- Nielsen, P. A. (1985) The influence of ageing and air change on the emission rate of gases and vapours from some building materials. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 207-213.
- Nielsen, P. V.; Moeller, A. T. A. (1985) Measurement of the three-dimensional wall jet from different types of air diffusers. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 383-388.
- Nielsen, T.; Ramdahl, T.; Bjorseth, A. (1983) The fate of airborne polycyclic organic matter. EHP Environ. Health Perspect. 47: 103-114.
- Nilsby, I. (1949) Allergy to moulds in Sweden: a botanical and clinical study. Acta Allergologica (Copenhagen) 2: 57-90.
- Nipe, M. R. (1981) Atmospheric contaminant fading. Text. Chem. Color. 13: 136-146.
- Nisbet, I. C. T.; Schneiderman, M. A.; Karch, N. J.; Siegel, D. M. (1983) Review and evaluation of the evidence for cancer associated with air pollution. Research Triangle Park, NC: U. S. Environmental Protection Agency, Office of Air Quality Planning and Standards; EPA report no. EPA-450/5-83-006. Available from: NTIS, Springfield, VA; PB84-164078.

- Nishikawa, T.; Aoki, M.; Okabe, S. (1985) Time variation of  $^{222}\text{Rn}$  progeny concentration in rainwater. *Health Phys.* 49: 1284-1289.
- Nitschke, I. A.; Traynor, G. W.; Clarkin, M. E.; Adams, G. P.; Rizzuto, J. E. (1985) Field testing of energy-efficient indoor combustion pollution control techniques. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-30A.7.
- Nitta, H.; Maeda, K. (1982) Personal exposure monitoring to nitrogen dioxide. *Environ. Int.* 8: 243-246.
- Nordman, H.; Keskinen, H.; Tuppurainen, M. (1985) Formaldehyde asthma - rare or over-looked. *J. Allergy Clin. Immunol.* 75: 91-99.
- Norgaard, J.; Madsen, L. T. (1985) The ability of room thermostats to maintain thermal comfort. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 59-64.
- Norsted, S. W.; Kozinetz, C. A.; Annegers, J. F. (1985) Formaldehyde complaint investigations in mobile homes by the Texas Department of Health. *Environ. Res.* 37: 93-100.
- Noy, D.; Lebret, E.; Willers, H.; Winkes, A.; Boleij, J. S. M.; Brunekreef, B. (1986) Estimating human exposure to nitrogen dioxide: results from a personal monitoring study among housewives. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 407-411.
- Nyberg, P. C.; Bernhardt, D. E. (1983) Measurement of time-integrated radon concentrations in residences. *Health Phys.* 45: 539-543.
- Nystrom, C. W.; Green, C. R. (1986) Assessing the impact of environmental tobacco smoke on indoor air quality: current status. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 213-233.
- O'Connor, J. J. (1913) The economic cost of the smoke nuisance to Pittsburgh. Pittsburgh, PA: University of Pittsburgh, Mellon Institute of Industrial Research and School of Specific Industries. (Smoke investigation bulletin no. 4).
- Oatman, L. (1985) Minnesota's response to indoor air problems. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-46.3.
- Oatman, L. (1986) Protecting indoor air quality: state government's role. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-35.3.

- Oatman, L.; Roy, R. (1986) Surface and indoor air levels of polychlorinated biphenyls in public buildings. Bull. Environ. Contam. Toxicol. 37: 461-466.
- Oatman, L.; Roy, R.; Gray, D. (1985) Indoor air and surface levels of PCBs in public buildings. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-30B.2.
- Oezkaynak, H.; Burbank, B.; Garsd, A.; Spengler, J. D. (1985) Statistical analyses of the Lake Couchiching health and aerometric data: appendix to phase II report. Cambridge, MA: Harvard University, Energy and Environmental Policy Center; unpublished.
- Oezkaynak, H.; Ryan, P. B.; Spengler, J. D.; Laird, N. M. (n.d.) Bias due to misclassification of personal exposures in epidemiologic studies of indoor and outdoor air pollution. U. S. Department of Energy, Health and Environmental Risk Analysis Program; contract no. DE-AC02-81EV10731.
- Oezkaynak, H.; Ryan, P. B.; Allen, G. A.; Turner, W. A. (1982) Indoor air quality modeling: compartmental approach with reactive chemistry. Environ. Int. 8: 461-471.
- Oezkaynak, H.; Ryan, P. B.; Spengler, J. D.; Laird, N. M. (1986) Bias due to misclassification of personal exposures in epidemiologic studies of indoor and outdoor air pollution. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 389-393.
- Oezkaynak, H.; Spengler, J. D. (1985) Analysis of health effects resulting from population exposures to acid precipitation precursors. Presented at: NIEHS Conference on health effects of acid precipitation; November 1984; Research Triangle Park, NC. EHP Environ. Health Perspect.: in press.
- Oezkaynak, H.; Spengler, J. D.; Thurston, G. D. (1985) Consideration of risk analysis methods in the revision of the primary standards for ambient particles. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-34.2.
- Offermann, F. J.; Dickenson, J. B.; Fisk, W. J.; Grimsrud, D. T.; Hollowell, C. D.; Krinkel, D. L.; Roseme, G. D. (1982) Residential air-leakage and indoor air quality in Rochester, New York. Berkeley, CA: Lawrence Berkeley Lab; report LBL-13100.
- Offermann, F. J.; Girman, J. R.; Hollowell, C. D. (1981) Midway house-tightening project: a study of indoor air quality. Berkeley, CA: Lawrence Berkeley Lab; report LBL-12777.
- Offermann, F. J.; Hollowell, C. D.; Nazaroff, W. W.; Roseme, G. D.; Rizzuto, J. R. (1982) Low-infiltration housing in Rochester, New York: a study of air-exchange rates and indoor air quality. Environ. Int. 8: 435-445.

- Offermann, F. J.; Sextro, R. G.; Fisk, W. J.; Nazaroff, W. W.; Nero, A. V.; Revzan, K. L.; Yater, J. (1984) Control of respirable particles and radon progeny with portable air cleaners. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-16659.
- Offermann, F. J.; Sextro, R. G.; Fisk, W. J.; Grimsrud, D. T.; Nazaroff, W. W.; Nero, A. V.; Revzan, K. L.; Yater, J. (1985) Control of respirable particles in indoor air with portable air cleaners. *Atmos. Environ.* 19: 1761-1771.
- Ogston, S. A.; Florey, C. du V.; Walker, C. H. M. (1985) The Tayside infant morbidity and mortality study: effect on health of using gas for cooking. *Br. Med. J.* 290: 957-960.
- Ohnishi, Y.; Kinouchi, T.; Manabe, Y.; Tsutsui, H.; Otsuka, H.; Tokiwa, H.; Otofuji, T. (1984) Nitro compounds in environmental mixtures and foods. In: Waters, M. D.; Shandu, S. S.; Lewtas, J.; Claxton, L.; Strauss, G.; Nesnow, S., eds. *Short-term bioassays in the analysis of complex environmental mixtures IV*. New York, NY: Plenum Press; pp. 195-204.
- Olesen, B. W.; Bovenzi, M. (1985) Assessment of the thermal indoor environment in a hospital. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 195-200.
- Oliver, K. D.; Pleil, J. D.; McClenney, W. A. (1986) Sample integrity of trace level volatile organic compounds in ambient air stored in Summa polished cannisters. *Atmos. Environ.* 20: 1403-1411.
- Olsen, J. H.; Asnaes, S. (n.d.) Formaldehyde and risk of squamous cell carcinoma of the sino-nasal cavities in humans. *Br. J. Ind. Med.*: in press.
- Olsen, J. H.; Dossing, M. (1982) Formaldehyde induced symptoms in day care centers. *Am. Ind. Hyg. Assoc. J.* 43: 366-370.
- Olsen, J. H.; Jensen, S. P.; Hink, M.; Faurob, K.; Breum, N. O.; Jensen, O. M. (1984) Occupational formaldehyde exposure and increased nasal cancer risk in man. *Int. J. Cancer* 34: 639-644.
- Ong, T.-M. (1975) Aflatoxin mutagenesis. *Mutat. Res.* 32: 35-53.
- Oswald, R. A.; Alter, H. W. (1984) Localization of indoor radon sources using integrating track etch detectors. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 105-112.
- Ott, W. R. (1971) An urban survey technique for measuring the spatial variation of carbon monoxide concentrations in cities. Stanford, CA: Stanford University, Dept. of Civil Engineering.

- Ott, W. R.; Mage, D. T. (1978) Interpreting urban carbon monoxide concentrations by means of a computerized blood COHb model. *J. Air Pollut. Control Assoc.* 28: 911-916.
- Ott, W. R.; Rodes, C. E.; Drago, R. J.; Williams, C.; Burmann, F. J. (1986) Automated data-logging personal exposure monitors for carbon monoxide. *J. Air Pollut. Control Assoc.* 36: 883-887.
- Ott, W. R.; Willits, N. H. (1981) CO exposures of occupants of motor vehicles: modeling the dynamic response of the vehicle. Stanford, CA: Stanford University, Dept. of Statistics; SIMS technical report no. 48.
- Ott, W.; Flachsbart, P. (1982) Measurement of carbon monoxide concentrations in indoor and outdoor locations using personal exposure monitors. *Environ. Int.* 8: 295-304.
- Ott, W.; Wallace, L.; Mage, D.; Akland, G.; Lewis, R.; Sauls, H.; Rodes, C.; Kleffman, D.; Kuroda, D.; Morehouse, K. (1986) The Environmental Protection Agency's research program on total human exposure. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 475-494.
- Owen, M. K.; Ensor, D. S.; Hovis, L. S.; Tucker, W. G. (1986) Effects of office building heating and ventilation system parameters on respirable particles. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 510-522.
- Ozkaynak, H.; Ryan, P. B.; Spengler, J. D.; Letz, R. (1984) Bias due to misclassification of personal exposures in epidemiologic studies of indoor and outdoor air pollution. APCA/ASQC specialty conference on: quality assurance in air pollution measurements; October; Boulder, CO. Pittsburgh, PA: Air Pollution Control Association and American Society for Quality Control.
- Ozkaynak, H.; Schatz, A. D.; Thurston, G. D.; Isaacs, R. G.; Husar, R. B. (1985) Relationships between aerosol extinction coefficients derived from airport visual range observations and alternative measures of airborne particle mass. *J. Air Pollut. Control Assoc.* 35: 1176-
- Ozkaynak, H.; Thurston, G. D.; Tosteson, T. D.; Smith, C. M.; Kinney, P. L.; Beck, B.; Skornik, W.; Colome, S. D.; Schatz, A. (1983) Analysis of health effects resulting from population exposures to ambient particulate matter: health and environmental effects document. Cambridge, MA: Harvard University Energy and Environmental Policy Center; U. S. Department of Energy agreement no. DE-AC02-81EV10731.
- Ozkaynak, H.; Thurston, G. D.; Schatz, A. D. (1984) Relationship between human morbidity and ambient pollution: preliminary findings. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-1.6.

- Palmes, E. D.; Tomczyk, C.; DiMattio, J. (1977) Average NO<sub>2</sub> concentrations in dwellings with gas or electric stoves. *Atmos. Environ.* 11: 869-872.
- Palmes, E. D.; Tomczyk, C.; March, A. W. (1979) Relationship of indoor NO<sub>2</sub> concentrations to use of unvented gas appliances. *J. Air Pollut. Control Assoc.* 29: 392-393.
- Palmgran, U., et al. (1986) Levels of viable and nonviable airborne microorganisms registered with the CAMNEA-method in association with Farmer's lung and with environment in stable. In: 3rd international conference on aerobiology; Basel, Switzerland.
- Pandey, M. R. (1984) Prevalence of chronic bronchitis in a rural community of the hill region of Nepal. *Thorax* 39: 331-336.
- Pandey, M. R. (1984) Domestic smoke pollution and chronic bronchitis in a rural community of the hill region of Nepal. *Thorax* 39: 337-339.
- Pandey, M. R.; Regmi, H. N.; Neupane, R. P.; Gautam, A.; Bhandari, D. P. (1984) Domestic smoke pollution and respiratory function in rural Nepal. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 413-420. Available from: NTIS, Springfield, VA; PB85-104214.
- Pandey, M. R.; Regmi, H. N.; Neupane, R. P.; Gautam, A. (1985) Domestic smoke pollution and respiratory function in rural Nepal. *Tokai J. Exp. Clin. Med.* 10: 471-481.
- Pannwitz, K.-H. (1984) Indoor air monitoring by sample taking at solid matrices. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 197-201.
- Panzhauser, E.; Fail, A.; Ertl, H. (1985) The role of natural ventilation for indoor climate control in Austrian buildings. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 301-306.
- Paripas, B.; Takacs, S.; Somogyi, G.; Nikl, I. (1984) Integral alpha and gamma radiation measurements in dwelling houses. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 113-118.

Parker, G. B.; Lee, R. N.; Dennis, G. W. (1983) Monitoring indoor pollutants in two small office buildings to support a modeling study. Presented at: 1983 annual PNWIS-APCA meeting; November; Seattle, Washington. Available from: NTIS, Springfield, VA; DE85-005295; PNL-SA--12731.

Parker, G. B.; Wilfert, G. L.; Dennis, G. W. (1984) Indoor air quality and infiltration in multifamily naval housing. Presented at: 1984 annual PNWIS/APCA meeting; November; Portland, OR. Available from: NTIS, Springfield, VA; DE85-005295; PNL-SA--12731.

Partridge, J. E.; Horton, T. R.; Sensintaffar, E. L. (1979) A study of radon-222 released from water during typical household activities. Montgomery, AL: U. S. Environmental Protection Agency, Office of Radiation Programs; technical note ORP/EERF-79-1.

Paschoa, A. S.; Wrenn, M. E.; Torrey, J. A. (1984) A mathematical model of indoor radon and daughters. Radiat. Prot. Dosim. 7: 139-142.

Passchier, W. F.; Klijn, P.-J.; van der Heijde, H. B. (1986) A proposed standard for radioactivity in building materials used in the Netherlands. Health Phys. 51: 661-664.

Patel, J. M.; Block, E. R. (1986) Nitrogen dioxide-induced changes in cell membrane fluidity and function. Am. Rev. Respir. Dis. 134: 1196-1202.

Patel, T. S.; Raiyani, C. V.; Mohan Rao, N.; Aggarwal, A. L.; Kartha, G. P.; Chatterjee, B. B. (1984) Indoor air pollution problems: traditional vs modern fuels. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 295-302. Available from: NTIS, Springfield, VA; PB85-104214.

Patterson, R.; Fink, J. N.; Miles, W. B.; Basich, J. E.; Schleuter, D. B.; Tinkelmann, D. G.; Roberts, M. (1981) Hypersensitivity lung disease presumptively due to Cephalosporium in homes contaminated by sewage flooding or by humidifier water. J. Allergy Clin. Immunol. 68: 128-132.

Pattishall, E. N.; Strope, G. L.; Etzel, R. A.; Helms, R. W.; Haley, N. J.; Denny, F. W. (1985) Serum cotinine as a measure of tobacco smoke exposure in children. Am. J. Dis. Child. 139: 1101-1104.

Paul, R. A.; McCurdy, T. (1986) Estimation of population exposure to ozone. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-66.2; prepublication draft.

Pearson, J. E.; Jones, G. E. (1966) Soil concentrations of "emanating radium-226" and the emanation of radon-222 from soils and plants. Tellus 18: 655-662.

- Pearson, T. A.; Bulkley, B. H.; Achuff, S. C.; Kwiterovich, P. O.; Gordis, L. (1979) The association of low levels of HDL cholesterol and arteriographically defined coronary artery disease. Am. J. Epidemiol. 109: 285-295.
- Pearson, T. A.; Dillman, J. M.; Solez, K.; Heptinstall, R. H. (1978) Clonal characteristics in layers of human atherosclerotic plaques. Am. J. Pathol. 93: 93-102.
- Pearson, T. A.; Dillman, J. M.; Solez, K.; Heptinstall, R. H. (1978) Clonal markers in the study of the origin and growth of human atherosclerotic lesions. Circ. Res. 43: 10-18.
- Pearson, T. A.; Dillman, J.; Williams, K. J.; Wolff, J. A.; Adams, R.; Solez, K.; Heptinstall, R. H.; Malmros, H.; Sternby, N. (1979) Clonal characteristics of experimentally induced "atherosclerotic" lesions in the hybrid hare. Science (Washington, DC) 206: 1423-1425.
- Pearson, T. A.; Kramer, E. C.; Solez, K.; Heptinstall, R. H. (1977) The human atherosclerotic plaque. Am. J. Pathol. 86: 657-664.
- Pearson, T. A.; Solez, K.; Dillman, J.; Heptinstall, R. H. (1979) Monoclonal characteristics of organising arterial thrombi: significance in the origin and growth of human atherosclerotic plaques. Lancet (8106): 7-11.
- Pedersen, B. S.; Fisk, W. J. (1986) Air washing for the removal of formaldehyde from indoor air. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 439-447.
- Pedreira, F. A. (1985) Involuntary smoking and incidence of respiratory illness during the first year of life. Pediatrics 75: 594-597.
- Pellizzari, E. D., et al. (1981) Total exposure assessment methodology (TEAM) study. V. I: northern New Jersey; v. II: Research Triangle Park; v. III: quality assurance. Washington, DC: U. S. Environmental Protection Agency, Office of Research and Development; EPA contract no. 68-01-3849.
- Pellizzari, E. D.; Hartwell, T. D.; Leininger, C.; Zelon, H.; Williams, S.; Breen, J.; Wallace, L. (1982) Human exposure to vapor-phase halogenated hydrocarbons. Fixed-site vs. personal exposure. In: Proceedings from the symposium on ambient, sources, and exposure monitoring for non-criteria pollutants.
- Pellizzari, E. D.; Hartwell, T. D.; Sparacino, C. M.; Sheldon, L. S.; Whitmore, R.; Leininger, C.; Zelon, H. (1985) Interim report on the total exposure assessment methodology (TEAM) study: first season, northern New Jersey. Research Triangle Park, NC: Research Triangle Institute. Washington, DC: Environmental Monitoring Systems Division, Office of Research and Development; EPA contract no. 68-02-3679; Research Triangle Institute report no. RTI/2392/03 - 03 S.

Pellizzari, E. D.; Perritt, K.; Hartwell, T. D.; Michael, L. C.; Sparacino, C. M.; Sheldon, L. S.; Whitmore, R.; Leininger, C.; Zelon, H.; Handy, R. W.; Smith, D. (n.d.) Total exposure assessment methodology (TEAM) study: Elizabeth and Bayonne, New Jersey, Devils Lake, North Dakota and Greensboro, North Carolina volume I: final draft report. Research Triangle Park, NC: Research Triangle Institute. Washington, DC: U. S. Environmental Protection Agency, Office of Research and Development; Research Triangle Institute report no. RTI/2391.00-01F.

Pellizzari, E. D.; Sheldon, L. S.; Sparacino, C. M.; Bursey, J. T.; Wallace, L.; Bromberg, S. (1984) Volatile organic levels in indoor air. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 303-308. Available from: NTIS, Springfield, VA; PB85-104214.

Pellizzari, E. D.; Sparacino, C. M.; Sheldon, L. S.; Leininger, C. C.; Zelon, H.; Hartwell, T. D.; Wallace, L. (1984) Sampling and analysis for volatile organics in indoor and outdoor air in New Jersey. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 221-225. Available from: NTIS, Springfield, VA; PB85-104214.

Pellizzari, E. D.; Zelon, H. S.; Bursey, J. T.; Leininger, C. C.; Hartwell, T. D.; Breen, J. (1984) Sampling and analysis design for volatile halocarbons in indoor and outdoor air. In: Berglund, B.; Lindvall, T.; Sundell, J. eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 203-208. Available from: NTIS, Springfield, VA; PB85-104214.

Peltier, R. G. (1986) Tobacco smoke ventilation and air cleaners: particulates vs. gases. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 611-617.

Pengelly, L. D., et al. (1983) The Hamilton study: relationship between outdoor and indoor air quality in homes and elementary schools. Toronto, Canada: Canada Ministry of Environment general and air pollution research technology transfer conference; v. I; p. 184.

Pennsylvania Department of Environmental Resources. (1985) General remedial action details for radon gas mitigation. Philadelphia, Pa: Pennsylvania Department of Environmental Resources, Bureau of Radiation Protection.

Pepys, J. (1982) Chemical dusts, vapours, and fumes causing asthma. Environ. Int. 8: 321-325.

- Perdue, P. T.; Dickson, H. W.; Haywood, F. F. (1980) Radon monitoring instrumentation. *Health Phys.* 39: 85-88.
- Pershagen, G.; Damber, L.; Falk, R. (1984) Exposure to radon in dwellings and lung cancer: a pilot study. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 73-78.
- Pershagen, G.; Hrubec, Z.; Svensson, C. (1987) Passive smoking and lung cancer in Swedish women. *Am. J. Epidemiol.* 125: 17-24.
- Persily, A. (1982) Evaluation of an air-to-air heat exchanger. *Environ. Int.* 8: 453-459.
- Persily, A. K. (1986) Ventilation effectiveness measurements in an office building. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 548-558.
- Peterson, H. T., Jr. (1984) Regulatory implications of radiation dose-effect relationships. *Health Phys.* 47: 345-359.
- Peterson, J. E.; Stewart, R. D. (1975) Predicting the carboxyhemoglobin levels resulting from carbon monoxide exposures. *J. Appl. Physiol.* 39: 633-638.
- Petreas, M.; Liu, K.-S.; Chang, B.-H.; Hayward, S. B.; Sexton, K. (1986) Nitrogen dioxide concentrations inside mobile homes. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-6.8.
- Petty, T. L. (1981) A brief synopsis for the clinician. In: Zwillich, C. W.; Cherniack, R. M., eds. *The 23rd Aspen lung conference: the environment and the lung*; June 1980; Aspen, CO. *Chest* 80: 1S-2S.
- Pfister, H.; Pauly, H. (1984) Population exposure due to natural radiation in an urban district of the Federal Republic of Germany. *Radiat. Prot. Dosim.* 7: 279-282.
- Phillips, J. L.; Winters, W. D.; Rutledge, L. (1986) *In vitro* exposure to electromagnetic fields: changes in tumour cell properties. *Int. J. Radiat. Biol.* 49: 463-469.
- Pickrell, J. A.; Griffis, L. C.; Mokler, B. V.; Kanapilly, G. M.; Hobbs, C. H. (1984) Formaldehyde release from selected consumer products: influence of chamber loading, multiple products, relative humidity, and temperature. *Environ. Sci. Technol.* 18: 682-686.

Pickrell, J. A.; Hahn, F. F.; Rebar, A. H.; Damon, E. G.; Beeth, R. L.; Pfleger, R. C.; Hobbs, C. H. (1981) Pulmonary effects of exposure to 20 ppm NO<sub>2</sub>. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 50S-52S.

Pierce, R. C.; Louie, A. H.; Sheffer, M. G.; Woodbury, N. L. (1984) The estimation of total human exposure to pollutants: integrated models for indoor and outdoor exposure to air pollutants. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 397-402. Available from: NTIS, Springfield, VA; PB85-104214.

Piersol, P.; Riley, M.; Lubun, M. (1986) Radon and air infiltration: instrumentation evaluation and field surveys for the R-2000 super energy-efficient program. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-81.7.

Pietrulla, W. (1982) Chemische Bestandteile in gaengigen Haushaltprodukten [Chemical components in common consumer products]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 137-144. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

Pitts, J. N., Jr. (1983) Formation and fate of gaseous and particulate mutagens and carcinogens in real and simulated atmospheres. *EHP Environ. Health Perspect.* 47: 115-140.

Plett, E. G.; Khalil, M. B.; Vaculik, F. (1985) Prediction and experimental verification of operative temperature near curtain covered windows. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 171-176.

Plotkin, S.; Kapplow, R. (1952) Food poisoning and carbon monoxide poisoning. *N. Y. State J. Med.* 52: 2409-2411.

Poffijn, A.; Bourgoignie, R.; Marijns, R.; Uyttenhove, J.; Janssens, A.; Jacobs, R. (1984) Laboratory measurements of radon exhalation and diffusion. *Radiat. Prot. Dosim.* 7: 77-79.

Pohl, E.; Pohl-Ruling, J. (1977) Dose calculations due to the inhalation of 222Rn, 220Rn and their daughters. *Health Phys.* 32: 552-555.

Pohl-Ruling, J.; Steinhausler, F.; Pohl, E. (1980) Investigation on the suitability of various materials as <sup>222</sup>Rn diffusion barriers. *Health Phys.* 39: 299-301.

Ponte, L. (1986) Radioactivity: the new-found danger in cigarettes. In: Reader's Digest (March): 2-5.

- Porstendoerfer, J.; Wicke, A.; Schraub, A. (1978) The influence of exhalation, ventilation and deposition processes upon the concentration of radon ( $^{222}\text{Rn}$ ), thoron ( $^{220}\text{Rn}$ ) and their decay products in room air. *Health Phys.* 34: 465-473.
- Porstendorfer, J. (1984) Behaviour of radon daughter products in indoor air. *Radiat. Prot. Dosim.* 7: 107-113.
- Porstendorfer, J.; Mercer, T. T. (1979) Influence of electric charge and humidity upon the diffusion coefficient of radon decay products. *Health Phys.* 37: 191-199.
- Porter, W. K., Jr. (1984) Pollutant emissions from kerosene heaters and unvented gas space heaters. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 265-270. Available from: NTIS, Springfield, VA; PB85-104214.
- Pratt, G. C.; Hendrickson, R. C.; Chevone, B. I.; Christopherson, D. A.; O'Brien, M. V.; Krupa, S. V. (1983) Ozone and oxides of nitrogen in the rural upper-midwestern U.S.A. *Atmos. Environ.* 17: 2013-2023.
- Prescher, K.-E. (1982) Auftreten von Kohlenmonoxid, Kohlendioxid und Stickstoffoxiden beim Betrieb von Gasgerden [The occurrence of carbon monoxide, carbon dioxide and nitrogen oxides during the use of gas cookers]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. *Luftqualitaet in Innenraeumen* [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 191-198. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Price, B. W. (1979) Evaluation and utilization of an improved alpha particle scintillation cell [masters thesis]. Chapel Hill, NC: University of North Carolina.
- Prichard, H. M. (1983) A solvent extraction technique for the measurement of  $^{222}\text{Rn}$  at ambient air concentrations. *Health Phys.* 45: 493-499.
- Prichard, H. M.; Gesell, T. F. (1981) An estimate of population exposures due to radon in public water supplies in the area of Houston, Texas. *Health Phys.* 41: 599-606.
- Prichard, H. M.; Gesell, T. F.; Hess, C. T.; Weiffenbach, C.; Nyberg, P. (1983) Integrated radon data from dwellings in Maine and Texas. *Health Phys.* 45: 428-432.
- Prichard, H. M.; Gesell, T. F. (1983) Radon-222 in municipal water supplies in the central United States. *Health Phys.* 45: 991-993.
- Prichard, H. M.; Gesell, T. F.; Hess, C. T.; Weiffenbach, C. V.; Nyberg, P. (1982) Associations between grab sample and integrated radon measurements in dwellings in Maine and Texas. *Environ. Int.* 8: 83-87.

Pullan, C. R.; Hey, E. N. (1982) Wheezing, asthma, and pulmonary dysfunction 10 years after infection with respiratory syncytial virus in infancy. Br. Med. J. 284: 1667-1669.

Purcell, G. G.; Harper, J. P. (1986) Studies on energy conservation and indoor air quality sponsored by electric utilities. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-5.1.

Qing-shan, D.; Teng-yang, S.; Dan-long, S. (1985) The analysis and experiment on the longitudinal undulant air jet. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 435-440.

Quackenboss, J. J.; Kanarek, M. S.; Spengler, J. D.; Letz, R. (1982) Personal monitoring for nitrogen dioxide exposure: methodological considerations for a community study. Environ. Int. 8: 249-258.

Quackenboss, J. J.; Kanarek, M. S.; Kaarakka, P.; Duffy, C. P.; Flickinger, J.; Turner, W. A. (1984) Residential indoor air quality, structural leakage and occupant activities for 50 Wisconsin homes. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 5, buildings, ventilation and thermal climate; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 411-420. Available from: NTIS, Springfield, VA; PB85-104222.

Quackenboss, J. J.; Spengler, J. D.; Kanarek, M. S.; Letz, R.; Duffy, C. P. (1986) Personal exposure to nitrogen dioxide: relationship to indoor/outdoor air quality and activity patterns. Environ. Sci. Technol. 20: 775-783.

Quant, F. R.; Nelson, P. A.; Sem, G. J. (1982) Experimental measurements of aerosol concentrations in offices. Environ. Int. 8: 223-227.

Rabinowitz, M.; Needleman, H.; Burley, M.; Finch, H.; Rees, J. (1984) Lead in umbilical blood, indoor air, tap water, and gasoline in Boston. Arch. Environ. Health 39: 299-301.

Radford, E. P. (1985) Potential health effects on indoor radon exposure. EHP Environ. Health Perspect. 62: 281-287.

Radford, E. P.; Drizd, T. A. (1982) Blood carbon monoxide levels in persons 3-74 years of age: United States, 1976-80. Hyattsville, MD: U. S. Department of Health and Human Services, Office of Health Research, Statistics, and Technology; DHHS pub. no. (PHS) 82-1250. (Advance data from vital and health statistics: no. 76).

Raes, F.; Janssens, A.; Declercq, A.; Vanmarcke, H. (1984) Investigation of the indoor aerosol and its effect on the attachment of radon daughters. Radiat. Prot. Dosim. 7: 127-131.

Raes, F.; Janssens, A.; Vanmarcke, H. (n.d.) Modeling size distributions of radon decay products in realistic environments. Ghent (Belgium) Nuclear Physics Laboratory; State University of Ghent Proeftuinstraat.

Rajala, M.; Janka, K.; Lehtimaki, M.; Kulmala, V.; Graeffe, G. (1986) The influence of an electrostatic precipitator and a mechanical filter on Rn decay products. *Health Phys.* 50: 447-455.

Raman, V.; Rai, J.; Singh, M.; Parashar, C. C. (1984) Determination of SO<sub>2</sub> by fixation as morpholine adduct. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 233-238. Available from: NTIS, Springfield, VA; PB85-104214.

Rannou, A.; Posny, F.; Guezengar, J. M.; Madelmont, C. (1984) Study of natural irradiation in dwelling places in France. *Radiat. Prot. Dosim.* 7: 317-320.

Rannug, U. (1983) Data from short-term tests on motor vehicle exhausts. *EHP Environ. Health Perspect.* 47: 177.

Rantakallio, P. (1978) Relationship of maternal smoking to morbidity and mortality of the child up to the age of five. *Acta Paediatr. Scand.* 67: 621-631.

Rao, M. K. (1986) Approaches to air pollution monitoring and control in submarines. In: *Proceedings of the 1986 EPA/APCA symposium on measurements of toxic air pollutants*. Research Triangle Park, NC: U. S. Environmental Protection Agency; pp. 95-103; EPA report no. EPA-600/9-86-013.

Rasch, H. (1985) Statistische Auswertung der Raumluftzustandsverteilung [Statistical evaluation of room air conditioning distribution]. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 485-490.

Rasmussen, C.; Clausen, G. H.; Berg-Munch, B.; Fanger, P. O. (1985) The influence of human activity on ventilation requirements for the control of body odor. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 357-362.

Rasmussen, S.; Neuberg, D.; DuMouchel, W. (1981) The relationship between indoor radon and lung cancer: a study of feasibility of an epidemiological study. Cambridge, MA: Massachusetts Institute of Technology, Mathematics Department and Statistics Center; MIT technical report no. EPA-1.

- Rau, J. A.; Huntzicker, J. J. (1985) Size distribution and chemical composition of residential wood smoke. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-43.3.
- Rector, H. E.; Koontz, M. D.; Cade, D. R.; Nagda, N. L. (1985) Impact of energy conservation measures on radon and radon progeny concentrations: a controlled study. ASHRAE Trans. 91: 1954-1962.
- Reed, C. E. (1981) Allergic agents. Bull. N. Y. Acad. Med. 57: 897-906.
- Reed, C. E.; Swanson, M. C.; Lopez, M.; Ford, A. M.; Major, J.; Witmer, W. B.; Valdes, T. B. (1983) Measurement of IgG antibody and airborne antigen to control and industrial outbreak of hypersensitivity pneumonitis. JOM J. Occup. Med. 25: 207-210.
- Reed, C. E.; Swanson, M. C. (1984) Indoor allergens: identification and quantification. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 1, recent advances in the health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 99-108. Available from: NTIS, Springfield, VA; PB85-104180.
- Reed, C. E.; Swanson, M. C. (1986) Indoor allergens: identification and quantification. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 115-120.
- Regnier, J. E.; Blanchard, R.; Carter, M. W.; Cowan, E.; Martin, J.; Sullivan, R. (1985) Compliance and policy issues and recommendations related to revision of the national interim primary drinking water regulations for radionuclides. Health Phys. 48: 695-699.
- Reinert, J. C. (1980) Pesticides in the indoor environment. Washington, DC: U. S. Environmental Protection Agency, Pesticide Programs; pp. 233-238.
- Relwani, S. M.; Moschandreas, D. J.; Billick, I. H. (1986) Effects of operational factors on pollutant emission rates from residential gas appliances. J. Air Pollut. Control Assoc. 36: 1233-1237.
- Remijn, B.; Fischer, P.; Brunekreef, B.; Lebret, E.; Boleij, J. S. M.; Noij, D. (1985) Indoor air pollution and its effect on pulmonary function of adult non-smoking women: I. Exposure estimates for nitrogen dioxide and passive smoking. Int. J. Epidemiol. 14: 215-220.
- Remmer, H. (1985) Passivrauch am Arbeitsplatz: gesundheitsschaedlich oder nicht [Passive smoke in the work place: hazardous to health or not]? Zbl. Arbeitsmed. 35: 330-351.
- Rench, J. D.; Savage, E. P. (1976) Carbon monoxide in the home environment: a study. J. Environ. Health 39: 104-106.

- Renes, S.; Leader, B. P.; Schaap, L.; Verstraelen, H.; Tosun, T. (1985) An evaluation of sink terms in removing NO<sub>2</sub> and SO<sub>2</sub> from indoor air. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 221-226.
- Renoux, A.; Tymen, G.; Le Gac, J.; Madelaine, G. (1980) Study of the <sup>222</sup>Ra-short-lived daughter disequilibrium in a mixed maritime and continental atmosphere near granitic soils. *Health Phys.* 39: 291-298.
- Repace, J. L. (1981) The problem of passive smoking. In: Symposium on health aspects of indoor air pollution; May; New York, NY. *Bull. N. Y. Acad. Med.* 57: 936-946.
- Repace, J. L. (1982) Indoor air pollution. *Environ. Int.* 8: 21-36.
- Repace, J. L. (1984) Consistency of research data on passive smoking and lung cancer [letter]. *Lancet* 1: 506.
- Repace, J. L. (1984) Modeling and measurement of indoor pollution from sidestream smoke. In: IARC monograph on sidestream smoke.
- Repace, J. L.; Lowrey, A. H. (1980) Indoor air pollution, tobacco smoke, and public health. *Science* (Washington, DC) 208: 464-472.
- Repace, J. L.; Lowrey, A. H. (1982) Tobacco smoke, ventilation, and indoor air quality. *ASHRAE Trans.* (Part 1) 88: 895-914.
- Repace, J. L.; Lowrey, A. H. (1983) Modeling exposure of nonsmokers to ambient tobacco smoke. Presented at: 76th annual meeting of the Air Pollution Control Association; June; Atlanta, GA. Pittsburgh, PA: Air Pollution Control Association; paper no. 83-64.2.
- Repace, J. L.; Lowrey, A. H. (1985) A quantitative estimate of nonsmokers' lung cancer risk from passive smoking. *Environ. Int.* 11: 3-22.
- Repace, J. L.; Lowrey, A. H. (1986) A rebuttal to criticism of "a quantitative estimate of nonsmokers' lung cancer risk from passive smoking." In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 33-38.
- Repace, J. L.; Ott, W. R.; Wallace, L. A. (1980) Total human exposure to air pollution. Presented at: 73rd annual meeting of the Air Pollution Control Association; June. Pittsburgh, PA: Air Pollution Control Association; paper no. 80.61.6.
- Repine, J. E.; Fox, R. B.; Berger, E. M.; Vatter, A.; Shasby, D. M.; Bowman, C. M.; Harada, R. N. (1981) Potential mechanisms of lung injury from hydroxyl radical. In: Zwillich, C.W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. *Chest* 80: 45S-48S.

Research Triangle Institute. (1986) Review of indoor air sorbents interim report. Research Triangle Park, NC: U. S. Environmental Protection Agency; cooperative agreement no. CR812522-01. [unpublished].

Reubel, B.; Atzmueler, Ch.; Steinhaeusler, F.; Huber, W. (1986) Biophysical effects on human lung cells due to radon exposure. Salzburg, Austria: University of Salzburg, Division of Biophysics.

Revza, K. L. (1984) Effectiveness of local ventilation in removing simulated pollution from point sources. Lawrence Berkeley Laboratories; LBL-16701.

Revzan, K. L. (1986) Effectiveness of local ventilation in removing simulated pollution from point sources. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 449-459.

Revzan, K. L.; Nazaroff, W. W. (1983) A rapid spectroscopic technique for determining the potential  $\alpha$ -energy concentration of radon decay products. Health Phys. 45: 509-523.

Reyes Marrero, A. M.; Gonzalez Betancourt, I.; Rodriguez, Gonzalez, D.; Santiesteban Infante, E.; Alonso Bores, M.; Diaz Alonso, P. E. (1985) Analysis of different comfort air-conditioning systems in operating rooms in cuba and its importance in hospital infection. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 265-270.

Rhodes, W. J. (1985) Discussions with Region 9 and State of California representatives [memorandum to T. Kelly Janes]. Research Triangle Park, NC: U. S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory; June 25.

Richards, W.; Azen, S. P.; Weiss, J.; Stocking, S.; Church, J. (1981) Los Angeles air pollution and asthma in children. Ann. Allergy 47: 348-354.

Richters, A.; Kuraitis, K. (1981) Inhalation of NO<sub>2</sub> and blood borne cancer cell spread to the lungs. Arch. Environ. Health 36: 36-39.

Richters, A.; Richters, V. (1983) A new relationship between air pollutant inhalation and cancer. Arch. Environ. Health 38: 69-75.

Riley, D. J.; Kerr, J. S.; Berg, R. A.; Ianni, B.; Edelman, N. H.; Prockop, D. J. (1981) Effect of Cis-4-Hydroxy-L-Proline on lung mechanics and collagen content of bleomycin-treated hamsters. In: Zwillich, C. E.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 49S-50S.

Riley, M.; Piersol, P.; Lubun, M. (1986) Formaldehyde and radon: results under the R-2000 program. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 309-317.

- Riley, R. L. (1982) Indoor airborne infection. *Environ. Int.* 8: 317-320.
- Rinder, L. (1986) Policy and regulatory issues. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 83-86.
- Ritchie, I. M.; Arnold, F. C. (1984) Characterization of residential air pollution from unvented kerosene heaters. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 253-258. Available from: NTIS, Springfield, VA; PB85-104214.
- Ritchie, I. M.; Oatman, L. A. (1983) Residential air pollution from kerosene heaters. *J. Air Pollut. Control Assoc.* 33: 879-881.
- Rittfeldt, L.; Sandberg, M.; Ahlberg, M. S. (1984) Indoor air pollutants due to vinyl floor tiles. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 297-302.
- Rivers, M. E.; Brown, L. R.; Iwanski, M. L. (1986) Indoor air quality activities of the Tennessee Valley Authority. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-11.7.
- Roberts, J. W.; Ruby, M. G.; Warren, G. R. (1986) Mutagenic activity of house dust. In: *Proceedings of the 1986 symposium on application of short-term bioassays in the analysis of complex environmental mixtures*. Research Triangle Park, NC: U. S. Environmental Protection Agency; in press.
- Roberts, J. W.; Ruby, M. G.; Warren, G. R. (1987) Mutagenic activity of house dust. In: Sandhu, S. S.; Claxton, L.; Mass, M.; Moore, M.; Mumford, J.; DeMarini, D., eds. *Short-term bioassays in the analysis of complex environmental mixtures V*. New York, NY: Plenum Press.
- Robertson, A. S.; Burge, P. S.; Hedge, A.; Sims, J.; Gill, F. S.; Finnegan, M.; Pickering, C. A. C.; Dalton, G. (1985) Comparison of health problems related to work and environmental measurements in two office buildings with different ventilation systems. *Br. Med. J.* 291: 373-376.
- Rock, R. L.; Beckman, R. T. (1979) Radiation monitoring. Washington, DC: U. S. Department of Labor, Mine Safety and Health Administration.
- Rodahl, E. (1986) Comfort by intelligent ventilation. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 101-105.

Rodricks, J. V.; Hesseltine, C. W.; Mehlman, M. A. (1977) Mycotoxins in human and animal health. Park Forest South, IL: Pathotox.

Roedahl, E. (1986) Technical solutions to providing adequate indoor air quality and thermal climate. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 75-76.

Roessler, C. E.; Roessler, G. S.; Bolch, W. E. (1983) Indoor radon progeny exposure in the Florida phosphate mining region: a review. *Health Phys.* 45: 389-396.

Roger, L. J.; Kehrl, H. R.; Hazucha, M.; Horstman, D. H. (1985) Bronchoconstriction in asthmatics exposed to sulfur dioxide during repeated exercise. *J. Appl. Physiol.* 59: 784-791.

Rogers, S. A. (1986) Indoor air quality and environmentally induced illness: a technique to evoke chemically induced symptoms in patients. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 71-77.

Rogozan, M. B. (1982) Dynamic simulation of radon daughter concentrations in apartments using solar rockbed heat storage. *Environ. Int.* 8: 89-96.

Rohles, F. H.; Laviana, J. E. (1985) Indoor climate: new approaches to measuring how you feel. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 1-6.

Ronca-Battesta, M.; Magno, P.; Nyberg, P. (1986) Interim indoor radon and radon decay product measurement protocols. U. S. Environmental Protection Agency.

Rope, S. K.; Whicker, F. W. (1985) A field study of Ra accumulation in trout with assessment of radiation dose to man. *Health Phys.* 49: 247-257.

Rose, G.; Hamilton, P. J. S.; Colwell, L.; Shipley, M. J. (1982) A randomised controlled trial of anti-smoking advice: 10-year results. *J. Epidemiol. Community Health* 36: 102-108.

Rosenberg, L.; Schwingl, P. J.; Kaufman, D. W.; Miller, D. R.; Helmrich, S. P.; Stolley, P. D.; Schottenfeld, D.; Shapiro, S. (1984) Breast cancer and cigarette smoking. *New Engl. J. Med.* 310: 92-94.

Rothenberg, S. J.; Pickrell, J. A.; Hobbs, C. H. (1984) Surface area, adsorption and desorption studies on indoor dust samples. Inhalation Toxicology Research Institute annual report; Available from: NTIS, Springfield, VA; DE85009283; LMF--113.

Rudling, L.; Ahling, B.; Lofroth, G. (1982) Chemical and biological characterization of emissions from combustion of wood and wood-chips in small furnaces and stoves. In: Cooper, J. A.; Malek, D., eds. Proceedings, 1981 international conference on residential solid fuels: environmental impacts and solutions; June; Portland, OR. Beaverton, OR: Oregon Graduate Center; pp. 34-53.

Rudnick, S. N.; Hinds, W. C.; Maher, E. F.; First, M. W. (1983) Effect of plateout, air motion and dust removal on radon decay product concentration in a simulated residence. *Health Phys.* 45: 463-470.

Rudnick, S.; Maher, E. F. (1986) Surface deposition of  $^{222}\text{Rn}$  decay products with and without enhanced air motion. *Health Phys.* 51: 283-293.

Rueden, H. (1982) Medizinisch-hygienische Bewertung von Luftschadstoffen im Wohnbereich [Hygienic and health evaluation of air pollutants in living rooms]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 403-413. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

Ruh, C.; Gebefuegi, I.; Korte, F. (1984) The indoor biocide pollution: occurrence of pentachlorophenol and lindane in homes. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 309-315. Available from: NTIS, Springfield, VA; PB85-104214.

Rundo, J.; Essling, M. A.; Urnezis, P. W. (1979) Radioactivity in the furnace air-cleaning filter from a house with an unusually high level of airborne radon. Argonne, IL: Argonne National Laboratory, Radiological & Environmental Research Division; pp. 1-12; annual report; ANL-79-65 Part 2.

Rundo, J.; Markun, F.; May, H. A.; Plondke, N. J.; Keefe, D. J. (1979) Some measurements of radon and its daughters in houses. Argonne, IL: Argonne National Laboratory, Radiological & Environmental Research Division; pp. 1-12; annual report; ANL-79-65 Part 1.

Rundo, J.; Markun, F.; Plondke, N. J. (1979) Observation of high concentrations of radon in certain houses. *Health Phys.* 36: 729-730.

Rundo, J.; Sha, J. Y.; Toohey, R. E. (1979) Radon daughters in the occupants of a house with an unusually high concentration of airborne radon. Argonne, IL: Argonne National Laboratory, Radiological & Environmental Research Division; pp. 13-20; annual report; ANL-79-65 Part 2.

Rusch, G. M.; Clary, J. J.; Rinehart, W. E.; Bolte, H. F. (1983) A 26-week inhalation toxicity study with formaldehyde in the monkey, rat, and hamster. *Toxicol. Appl. Pharmacol.* 68: 329-343.

Ruth, J. H. (1986) Odor thresholds and irritation levels of several chemical substances: a review. *Am. Ind. Hyg. Assoc. J.* 47: A142-A151.

Ryan, P. B.; Spengler, J. D.; Letz, R. (1983) The effects of kerosene heaters on indoor pollutant concentrations: a monitoring and modeling study. *Atmos. Environ.* 17: 1339-1345.

Ryan, P. B.; Spengler, J. D.; Letz, R. (1984) Estimating personal exposures to NO<sub>2</sub>. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 141-147. Available from: NTIS, Springfield, VA; PB85-104214.

Ryan, P. B.; Spengler, J. D.; Halfpenny, P. F. (1986) Sequential box models for indoor air quality: application to airliner clean cabin air quality. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-7.4.

Ryan, P. B.; Spengler, J. D.; Letz, R. (1986) Estimating personal exposures to NO<sub>2</sub>. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 395-400.

Ryd, H.; Angelov, V.; Colven, R. (1985) Climate and pedagogics. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 313-320.

Rylander, R.; Haglind. (1984) Airborne endotoxin and humidifier disease. *Clin. Allergy* 14: 109-112.

Saccomanno, G.; Yale, C.; Dixon, W.; Auerbach, O.; Huth, G. C. (1986) An epidemiological analysis of the relationship between exposure to Rn progeny, smoking and bronchogenic carcinoma in the U-mining population of the Colorado plateau - 1960-1980. *Health Phys.* 50: 605-618.

Sachs, H. M.; Hernandez, T. L.; Ring, J. W. (1982) Regional geology and radon variability in buildings. *Environ. Int.* 8: 97-103.

Sachs, H. M.; Hernandez, T. L. (1984) Residential radon control by subslab ventilation. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 35-4.

Sagner, G.; Schoendube, M. (1982) Bestimmung und toxikologische Bewertung von Dichlorvos-Raumluft-Konzentrationen nach Ausbringung von Nebelmitteln [Determination and toxicological appraisal of indoor concentrations of dichlorvos after the application of spraying products]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 359-368. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

Sakuma, H.; Kasuma, M.; Munakata, S.; Osumi, T.; Sugawara, S. (1983) The distribution of cigarette smoke components between mainstream and sidestream smoke. *Beitr. Tabakforsch. Int.* 12:(2).

Salem, H.; Cullumbine, H. (1960) Inhalation toxicities of some aldehydes. *Toxicol. Appl. Pharmacol.* 2: 183-187.

Salisbury, S. A. (1986) Measuring carbon dioxide levels as an indicator of poor building ventilation: a case study. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 78-82.

Saltzman, B. E.; Fox, S. H. (1986) Biological significance of fluctuating concentrations of carbon monoxide. *Environ. Sci. Technol.* 20: 916-923.

Saltzman, L. E. (1985) Update on health effects associated with NO<sub>2</sub> - 1985 [memo to Andrew G. Ulsmaer]. U. S. Consumer Product Safety Commission; July 30.

Saltzman, L. E. (1986) Airborne allergens and pathogens in the indoor environment [draft memo to Sandra Eberle]. HSPS. November 4.

Salvigni, S.; Mazzacane, S.; Boccolari, A. (1985) Attainable energy saving in a sport palace heating through destratification and thermic recovery techniques. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 491-496.

Salvin, V. S. (1969) Ozone fading of dyes. *Text. Chem. Color.* 1: 245-251.

Salvin, V. S.; Walker, R. A. (1955) Service fading of disperse dyestuffs by chemical agents other than the oxides of nitrogen. *Text. Res. J.* 25: 571-585.

Samet, J. M. (1985) Defining an adverse respiratory health effect. *Am. Rev. Respir. Dis.* 131: 487.

Samet, J. M.; Bishop, Y.; Speizer, F. E.; Spengler, J. D.; Ferris, B. G., Jr. (1981) The relationship between air pollution and emergency room visits in an industrial community. *J. Air Pollut. Control Assoc.* 31: 236-240.

Samet, J. M.; Marbury, M. C.; Spengler, J. D. (n.d.) Health effects and sources of indoor air pollution.

Samet, J. M.; Speizer, F. E. (1983) Passive smoking and the lungs: a review of effect other than malignancy. In: Forbes, W. F.; Brecker, R. B.; Nostbakken, D., eds. *Proceedings of the 5th world congress on smoking and health*, v. 1. Ottawa, Canada: Canadian Council on Smoking and Health; pp. 199-205.

- Samfield, M. (1975) Hazardous and other pollutants. Research Triangle Park, NC: U. S. Environmental Protection Agency; TA&E annual report, v. 1.; inhouse report [unpublished].
- Samfield, M. (1980) Research and manufacturing in the U. S. cigarette industry. New York, NY: Lockwood Book Publishing Company; p. 109.
- Samfield, M. (1984) Cigarette emission data [unpublished]. July 15.
- Samfield, M. (1985) Indoor air particulate matter: a literature survey. Research Triangle Park, NC: U. S. Environmental Protection Agency; HATB report 85-1 [unpublished]; p. 3.
- Samfield, M. (1985) Importance of cigarette sidestream smoke - further aspects. *Tabak J. Int.* (6): 448.
- Samfield, M. (1986) Radon infiltration into structures and mitigation techniques - a literature review. Research Triangle Park, NC: U. S. Environmental Protection Agency; HATB report 86-3 rev. [unpublished].
- Samuelsson, C.; Pettersson, H. (1984) Exhalation of  $^{222}\text{Rn}$  from porous materials. *Radiat. Prot. Dosim.* 7: 95-100.
- Sanchez, D. C.; Mason, M.; Norris, C. (1987) Methods and results of characterization of organic emissions from an indoor material. In: *Symposium on the characterization of contaminant emissions from indoor sources*; Chapel Hill, NC. *Atmos. Environ.* 21: 337-345.
- Sandler, D. P.; Everson, R. B.; Wilcox, A. J. (1985) Passive smoking in adulthood and cancer risk. *Am. J. Epidemiol.* 121: 37-48.
- Sandler, D. P.; Everson, R. B.; Wilcox, A. J.; Browder, J. P. (1985) Cancer risk in adulthood from early life exposure to parents' smoking. *Am. J. Public Health* 75: 487-492.
- Sandler, D. P.; Wilcox, A. J.; Everson, R. B. (1985) Cumulative effects of lifetime passive smoking on cancer risk. *Lancet* 1: 312-315.
- Santodonato, J.; Howard, P.; Basu, D.; Lande, S.; Selkirk, J. K.; Sheehe, P. (1979) Health assessment document for polycyclic organic matter. Research Triangle Park, NC: Environmental Criteria and Assessment Office; EPA report no. EPA-600/9-79-008. Available from: NTIS, Springfield, VA; PB82-186792.
- Santodonato, J.; Meylan, W. M.; Davis, L. N.; Howard, P. H.; Orzel, D. M.; Bogyo, D. A. (1980) Investigation of selected potential environmental contaminants: styrene, ethylbenzene, and related compounds. Washington, DC: U. S. Environmental Protection Agency, Office of Toxic Substances; EPA report no. EPA-560/11-80-018. Available from: NTIS, Springfield, VA; PB81-102659.
- Sardinas, A. V.; Giulietti, M. A.; Most, R. S.; Honcher, P. (1979) Health effects associated with urea-formaldehyde foam insulation in Connecticut. *J. Environ. Health* 41: 270-272.

Saskatchewan Environment, Mines Pollution Control Branch. (1985) Radon surveys in Saskatchewan. Progress report. Prince Albert, Canada: Saskatchewan Environment, Mines Pollution Control Branch.

Sasser, M. K.; Watson, J. E., Jr. (1978) An evaluation of the radon concentration in North Carolina ground water supplies. *Health Phys.* 34: 667-671.

Savage, E. D. (1983) Evaluation of track-etch detectors. Washington, DC: U. S. Environmental Protection Agency, Office of Radiation Programs; EPA report no. EPA-520/5-83-020.

Savage, E. P.; Malberg, J. W.; Wheeler, H. W.; Tessari, J. D. (1976) Accidental carbon monoxide poisonings in Colorado and Wyoming, 1971-73. *Public Health Rep.* 91: 560-562.

Savitz et al. (1986) Presentation at the Department of Energy contractors review. November; Denver, CO.

Saxena, J., ed. (1984) Hazard assessment of chemicals: current developments, v. 3. Orlando, FL: Academic Press, Inc.

Schachter, E. N.; Witek, T. J.; Tosun, T.; Beck, G. J.; Leaderer, B. P.; Cain, W. S. (1984) Respiratory effects of exposure to 2.0 ppm of formaldehyde in healthy subjects. *Am. Rev. Respir. Dis.* 129: A151.

Schaplosky, A. F.; Oglesbay, F. B.; Morrison, J. H.; Gallagher, R. E.; Berman, W., Jr. (1974) Carbon monoxide contamination of the living environment: a national survey of home air and children's blood. *J. Environ. Health* 36: 569-573.

Schechter, M. T.; Miller, A. B.; Howe, G. R. (1985) Cigarette smoking and breast cancer: a case-control study of screening program participants. *Am. J. Epidemiol.* 121: 479-487.

Schenker, M. B.; Samet, J. M.; Speizer, F. E. (1983) Risk factors for childhood respiratory disease: the effect of host factors and home environmental exposures. *Am. Rev. Respir. Dis.* 128: 1038-1043.

Schenker, M. B.; Weiss, S. T.; Murawski, B. J. (1982) Health effects of residence in homes with urea formaldehyde foam insulation: a pilot study. *Environ. Int.* 8: 359-363.

Schery, S. D. (1985) Measurements of airborne  $^{212}\text{Pb}$  and  $^{220}\text{Rn}$  at varied indoor locations within the United States. *Health Phys.* 49: 1061-1067.

Scheuneman, E.; Wilson, A. G. (1986) Air quality results for airtightened houses. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 234-250.

- Schewe, G. J.; Carvitti, J.; Velten, J. (1986) Integration of EPA guideline air quality models with human exposure/risk estimation procedures. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-66.5; prepublication draft.
- Schiff, H. I.; MacKay, G. I.; Casteldine, C.; Harris, G. W.; Tran, Q. (1986) In: Proceedings of the 1986 EPA/APCA symposium on measurement of toxic air pollutants; April; Raleigh, NC; pp. 834-844.
- Schiller, G. E.; Nero, A. V.; Revzan, K. L.; Tien, C.-L. (1984) Radon decay-product behavior indoors: numerical modeling of convection effects. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-33.2.
- Schilling, R. S. F.; Letai, A. D.; Hiu, S.-L.; Beck, G. J.; Schoenberg, J. B.; Bouhuys, A. (1977) Lung function, respiratory disease, and smoking in families. *Am. J. Epidemiol.* 106: 274-283.
- Schmidt, H. E.; Hollowell, C. D.; Miksch, R. E.; Newton, A. S. (1980) Trace organics in offices. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-11378.
- Schmied, H. (1984) The sensitivity to humidity of radon monitoring instruments. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 119-124.
- Schmier, H.; Pensko, J.; Wicke, A. (1982) Radon in Wohnraeumen [Radon in living areas]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 155-165. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Schmitt, C. H. A. (1960) Lightfastness of dyestuffs on textiles. *Am. Dyest. Rep.* 49: 974-980.
- Schmitt, C. H. A. (1962) Daylight fastness testing by the Langley system. *Am. Dyest. Rep.* 51: 664-675.
- Schmitz, J.; Urban, M. (1984) Mine dumps as a source of radon impact on buildings. *Radiat. Prot. Dosim.* 7: 63-67.
- Schmitz, R. M.; Renz, U. (1985) Berchnung turbulenter Raumluftstroemungen bei gekoppeltem Impuls-, Waerme- und Stoffaustausch. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 371-376.

Schneider, T. (1986) Manmade mineral fibers and other fibers in the air and in settled dust. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 61-65.

Schoenberg, J. B.; Mitchell, C. A. (1975) Airway disease caused by phenolic (phenol-formaldehyde) resin exposure. Arch. Environ. Health 30: 574-577.

Schoenberger, C.; Hunninghake, G.; Gadek, J.; Crystal, R. (1981) Inflammation and asbestosis: characterization and maintenance of alveolitis following acute asbestos exposure. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 70S-71S.

Schutte, W. C.; Cole, R. S.; Frank, C. W.; Long, K. R. (1981) Problems associated with the use of urea-formaldehyde foam for residential insulation. Part III: Residential studies in CO and WI. U. S. Department of Commerce. Available from: NTIS, Springfield, VA; ORNL/sub-7559/3.

Schwadel, F. (1985) Pennsylvania home carries toxic legacy of 20's radium tests. Wall Street Journal June 27: 1, 15.

Schwartz, L. W.; Knight, H. D.; Whittig, L. D.; Malley, R. L.; Abraham, J. L.; Tyler, N. D. (1981) Silicate pneumoconiosis and pulmonary fibrosis in horses from the Monterey-Carmel peninsula. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 82S-85S.

Schwinden, T. (1985) [Letter to Lee Thomas requesting action on two-year-old radon and radon daughter data]; June 12. Available for inspection at: Environmental Criteria and Assessment Office, U. S. Environmental Protection Agency, Research Triangle Park, NC.

Sciocchetti, G.; Clemente, G. F.; Ingrao, G.; Scacco, F. (1983) Results of a survey on radioactivity of building materials in Italy. Health Phys. 45: 385-388.

Sciocchetti, G.; Scacco, F.; Baldassini, P. G.; Monte, L.; Sarao, R. (1984) Indoor measurements of airborne natural radioactivity in Italy. Radiat. Prot. Dosim. 7: 347-351.

Scott, A. G. (1979) Elliot Lake survey: organization and results. Presented at: 2nd workshop on radon and radon in urban communities; March; Bancroft, ON, Canada.

Scott, A. G. (1983) The distribution of average radon daughter concentrations in houses estimated from single-sample surveys. Health Phys. 45: 435-438.

Scott, A. G. (1983) Radon daughter deposition velocities estimated from field measurements. Health Phys. 45: 481-485.

Scott, A. G. (1983) The bias in radon daughter concentration estimates caused by concentration variations during sampling. Health Phys. 44: 267-271.

- Scott, A. G. (1985) [Unpublished letter to Bruce Henschel of EPA]. American Atcon, Inc.
- Scott, A.G.; Findlay, W. O.; American Atcon, Inc. (1983) Demonstration of remedial techniques against radon in houses on Florida phosphate lands. Final report. Montgomery, AL: U. S. Environmental Protection Agency, Eastern Environmental Radiation Facility; EPA report no. EPA-520/5-83-009.
- Sebben, J.; Pimm, P.; Shephard, R. J. (1977) Cigarette smoke in enclosed public facilities. Arch. Environ. Health 32: 53-58.
- Sega, K.; Fugas, M. (1982) Personal exposure versus monitoring station data for respirable particles. Environ. Int. 8: 259-263.
- Sega, K.; Fugas, M.; Kalinic, N.; Sisovic, A. (1986) Indoor-outdoor relationships for respirable particles, total suspended particulate matter and smoke concentrations in modern office buildings. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 71-74.
- Seifert, B. (1982) Vergleich der innerhalb und ausserhalb geschlossener Raeume auftretenden Konzentrationen anorganischer und organischer Verbindungen [Relationship between indoor and outdoor concentrations of inorganic and organic substances]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 41-74. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Seifert, B. (1984) A sampling strategy for the representative characterisation of the chemical composition of indoor air. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 361-366. Available from: NTIS, Springfield, VA; PB85-104214.
- Seifert, B. (1986) Characterization of indoor pollution and sources. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluation and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 11-13.
- Seifert, B.; Ullrich, D. (1987) Methodologies for evaluating sources of volatile organic chemicals (VOC) in homes. In: Symposium on the characterization of contaminant emissions from indoor sources; Chapel Hill, NC. Atmos. Environ. 21: 395-404.

- Seifert, B.; Ullrich, D.; Nagel, R. (1984) Analyse und Vorkommen von gasfoermigen organischen Verbindungen in der Luft von Innenraeumen [Analysis and presentation of gas-forming organic compounds in indoor air]. In: Lahmann, E.; Jander, K., eds. Lufthygiene 1984 [Air hygiene 1984]. New York, NY: Gustav Fischer Verlag; pp. 1-13. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 59).
- Seifert, B.; Wagner, H. M. (1982) "International symposium on indoor air pollution, health and energy conservation, 1981". Eine Zusammenfassung [A summary]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 421-439. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Seifert, V. B.; Ullrich, D.; Mailahn, W.; Nagel, R. (1986) Fluechtige organische Verbindungen in der Innenraumluft [Volatile organic compounds in indoor air]. Bundesgesundheitsblatt 29: 417-424.
- Selikoff, I. J. (1981) Household risks with inorganic fibers. In: Symposium on health aspects of indoor air pollution; May; New York, NY. Bull. N. Y. Acad. Med. 57: 947-961.
- Seltser, R., moderator. (1985) Discussion summary: potential hazards related to indoor pollution. EHP Environ. Health Perspect. 62: 301-302.
- Senanayake, N.; Karalliedde, L. (1987) Neurotoxic effects of organophosphorus insecticides: an intermediate syndrome. N. Engl. J. Med. 316: 761-763.
- Seppanen, O. (1986) Ventilation efficiency in practice. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 559-567.
- Sexton, K. (n.d.) The effects of residential wood combustion on indoor and outdoor air quality: a case study in Waterbury, Vermont. pp. 111-115.
- Sexton, K. (1985) Indoor air quality: an overview of policy and regulatory issues. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-46.1.
- Sexton, K. (1986) Indoor air quality: an overview of policy and regulatory issues. Sci. Technol. Human Values 11(1): 53-67.
- Sexton, K.; Letz, R.; Spengler, J. D. (1983) Estimating human exposure to nitrogen dioxide: an indoor/ outdoor modeling approach. Environ. Res. 32: 151-166.
- Sexton, K.; Liu, K.-S.; Petreas, M. X. (1985) Measuring indoor air quality by mail. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-31.3.

- Sexton, K.; Liu, K.-S.; Petreas, M. X. (1986) Formaldehyde concentrations inside private residences: a mail-out approach to indoor air monitoring. *J. Air Pollut. Control Assoc.* 36: 698-704.
- Sexton, K.; Liu, K.-S.; Treitman, R. D.; Spengler, J. D.; Turner, W. A. (1986) Characterization of indoor air quality in wood-burning residences. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden*. Environ. Int. 12: 265-278.
- Sexton, K.; Petreas, M. X.; Liu, K.-S.; Kulasingam, G. C. (1985) Formaldehyde concentrations measured in California mobile homes. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-85.2.
- Sexton, K.; Repetto, R. (1982) Indoor air pollution and public policy. *Environ. Int.* 8: 5-10.
- Sexton, K.; Ryan, P. B. (1987) Assessment of human exposure to air pollution: methods, measurements, and models. In: Watson, A.; Bates, R. R.; Kennedy, D., eds. *Air pollution, the automobile and public health: research opportunities for quantifying risk*. Washington, DC: National Academy of Sciences Press.; in press.
- Sexton, K.; Spengler, J. D.; Treitman, R. D. (1984) Effects of residential wood combustion on indoor air quality: a case study in Waterbury, Vermont. *Atmos. Environ.* 18: 1371-1383.
- Sexton, K.; Spengler, J. D.; Treitman, R. D.; Turner, W. A. (1984) Winter air quality in a wood-burning community: a case study in Waterbury, Vermont. *Atmos. Environ.* 18: 1357-1370.
- Sexton, K.; Spengler, J. D.; Treitman, R. D. (1984) Personal exposure to respirable particles: a case study in Waterbury, Vermont. *Atmos. Environ.* 18: 1385-1398.
- Sexton, K.; Treitman, R. D.; Spengler, J. D.; Turner, W. A. (1984) The effects of residential wood combustion on indoor and outdoor air quality: a case study in Waterbury, Vermont. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden*. Stockholm, Sweden: Swedish Council for Building Research; pp. 111-116. Available from: NTIS, Springfield, VA; PB85-104214.
- Sexton, K.; Webber, L. M.; Hayward, S. B.; Sextro, R. G.; Offerman, F. J. (1984) Characterization of particulate and organic emissions from major indoor sources. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden*. Stockholm, Sweden: Swedish Council for Building Research; pp. 163-168. Available from: NTIS, Springfield, VA; PB85-104214.

- Sexton, K.; Webber, L. M.; Hayward, S. B.; Sextro, R. G. (1985) Characterization of particle composition, organic vapor constituents, and mutagenicity of indoor air pollutant emissions. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-30B.6.
- Sexton, K.; Webber, L. M.; Hayward, S. B.; Sextro, R. G. (1986) Characterization of particle composition, organic vapor constituents, and mutagenicity of indoor air pollutant emissions. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 351-362.
- Sexton, K.; Wesolowski, J. J. (1984) California's indoor air quality program. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-35.6.
- Sextro, R. G. (1985) Control of indoor radon and radon progeny concentrations. Presented at: ASHRAE annual meeting; June; Honolulu, HI. ASHRAE Trans. 91: 1963-1979.
- Sextro, R. G. (1987) Understanding the origin of radon indoors - building a predictive capability. In: Symposium on the characterization of contaminant emissions from indoor sources; Chapel Hill, NC. Atmos. Environ. 21: 431-438.
- Sextro, R. G.; Offerman, F. J.; Nazaroff, W. W. (1984) Evaluation of indoor aerosol control devices and their effects on radon progeny concentrations. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-17598.
- Sextro, R. G.; Offermann, F. J.; Nazaroff, W. W.; Nero, A. V.; Revzan, K. L.; Yater, J. (1986) Evaluation of indoor aerosol control devices and their effects on radon progeny concentrations. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 429-438.
- Seymore, F. W.; Ryan, R. M.; Corelli, J. C. (1980) Radon and radon daughter levels in Howe Caverns. Health Phys. 38: 858-859.
- Shapiro, J. (1956) Radiation dosage from breathing radon and its daughter products. AMA Arch. Ind. Health 14: 169-177.
- Shaw, J. W. (1986) Indoor air quality of swimming pool enclosures. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 83-88.
- Sheikh, K. (1986) Exposure to electromagnetic fields and the risk of leukemia. Arch. Environ. Health 41: 56-63.

- Sheldon, L. S.; Thomas, K. W.; Jungers, R. H. (1986) Volatile organic emissions from building materials. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-52.3.
- Sheldon, L.; Cox, B.; Smith, L.; Hartwell, T.; Thomas, K.; Keever, J.; Whitaker, D. (1986) Determining the impact of combustion sources on indoor air quality in New York State: study design. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-6.4.
- Shepard, R. J. (1982) The risks of passive smoking. New York, NY: Oxford Press.
- Shephard, R. J.; Collins, R.; Silverman, F. (1979) "Passive" exposure of asthmatic subjects to cigarette smoke. Environ. Res. 20: 392-402.
- Sheppard, A. R.; Eisenbud, M. (1977) Biological effects of electric and magnetic fields of extremely low frequency. New York, NY: New York University Press; p. 3-3.
- Sherman, M. H. (1981) Air infiltration in buildings. Berkeley, CA: Lawrence Berkeley Laboratory, Energy & Environment Division.
- Sherwin, R. P.; Richters, V. (1982) Hyperplasia of type 2 pneumocytes following 0.34 ppm nitrogen dioxide exposure: quantitation by image analysis. Arch. Environ. Health 37: 306-315.
- Shillito, F. H.; Drinker, C. K.; Shaughnessy, T. J. (1936) The problem of nervous and mental sequelae of carbon monoxide poisoning. JAMA J. Am. Med. Assoc. 106: 669-674.
- Shimo, M. (n.d.) Radon and its short-lived daughters concentrations in outdoor and indoor air and estimation of the lung dose.
- Shimo, M. (1984) An estimation of the effective dose equivalent from Rn short-lived decay products. Health Phys. 47: 476-479.
- Shimo, M.; Asano, Y.; Hayashi, K.; Ikebe, Y. (1985) On some properties of  $^{222}\text{Rn}$  short-lived decay products in air. Health Phys. 48: 75-86.
- Shimo, M.; Iida, T.; Ikebe, Y. (n.d.) Intercomparison of different instruments for measurements of radon concentration in air. Nagoya, Japan: Nagoya University, Department of Nuclear Engineering [unpublished paper].
- Shimo, M.; Ikebe, Y. (1984) Measurements of radon and its short-lived decay products and unattached fraction in air. Radiat. Prot. Dosim. 8: 209-214.
- Shimo, M.; Ikebe, Y. (1984) A continuous measuring apparatus using filter-sampling technique for environmental radon daughters. Res. Lett. Atmos. Electricity 4: 63-70.

- Shroeder, D. (1985) Energiesparende Klimatisierung mit Grossrasterdecken [Energy saving air conditioning with large grid type ceilings]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 479-484.
- Shy, C. M.; Kleinbaum, D. G.; Morgenstern, H. (1978) The effect of misclassification of exposure status in epidemiological studies of air pollution health effects. Bull. N. Y. Acad. Med. 54: 1155-1165.
- Sickles, J. E. et al. (1986) Review of recent indoor air quality research. EPA report no. EPA-600/9-86-013.
- Siegel, J. M.; Wethington, J. A., Jr. (1981) Variations in radon working level with household conditions in a single family residence. Health Phys. 40: 391-394.
- Silverman, F.; Corey, P.; Mintz, S.; Olver, P.; Hosein, R. (1982) A study of effects of ambient urban air pollution using personal samplers: a preliminary report. Environ. Int. 8: 311-316.
- Silverman, F.; Corey, P.; Mintz, S.; Hosein, H. R. (1984) Factors that influence assessments of health effects of air pollution. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 123-127. Available from: NTIS, Springfield, VA; PB85-104214.
- Silverman, F.; Pengelly, L. D.; Mintz, S.; Kerigan, A. T.; Hosein, H. R.; Corey, P.; Goldsmith, C. H. (1982) Exposure estimates in assessing health effects of air pollution. Environ. Monit. Assess. 2: 233-245.
- Simon, R.; Scoggin, C.; Patterson, D. (1981) Hydrogen peroxide mediates the toxic effect of oxygen radicals on human fibroblasts. In: Zwilllich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 45S.
- Simonsson, B. G. (1986) Allergies and other hypersensitivity reactions to indoor pollutants. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 57-59.
- Simpson, S. G.; Comstock, G. W. (1983) Lung cancer and housing characteristics. Arch. Environ. Health 38: 248-251.
- Sinclair, J. D.; Psota-Kelty, L. A. (1985) Indoor-outdoor concentrations and indoor surface accumulations of ionic substances. Atmos. Environ. 19: 315-323.

- Singh, J.; Walcott, R.; St. Pierre, C.; Ferrel, T.; Garrison, S.; Gramp, G.; Groah, W. (1982) Evaluation of the relationship between formaldehyde emissions from particleboard mobile home decking in experimental mobile homes. U. S. Department of Housing and Urban Development; contract no. HC-5222.
- Sinnaeve, J. (1984) Limitation of indoor exposure: necessity and feasibility. Radiat. Prot. Dosim. 7: 427-433.
- Sinnaeve, J.; Clemente, G.; O'Riordan, M. (1984) The emergence of natural radiation. Radiat. Prot. Dosim. 7: 15-17.
- Siotis, I.; Wrixon, A. D. (1984) Radiological consequences of the use of fly ash in building materials in Greece. Radiat. Prot. Dosim. 7: 101-105.
- Sittig, M. (1985) Asbestos. In: Handbook of toxic and hazardous chemicals and carcinogens. 2nd ed. Park Ridge, NJ: Noyes Publications; pp. 92-93.
- Skaaret, E. (1986) Contaminant removal performance in terms of ventilation effectiveness. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 419-427.
- Skaret, E.; Mathisen, H. M. (1982) Ventilation efficiency. Environ. Int. 8: 473-481.
- Skinner, S. W.; Nyberg, P. C. (1983) Method for the calculation of radon response characteristics of integrating detectors. Health Phys. 45: 544-550.
- Skrable, K. W.; Chabot, G. E.; Alexander, E. L.; French, C. S. (1985) Committed vs annual dose limits for internal radiation protection and control [letter to the editor]. Health Phys. 48: 123.
- Smith, B. M. (1961) Natural radioactivity in ground water supplies in Maine and New Hampshire. J. Am. Water Works Assoc. 53: 75-88.
- Smith, I. M. (1984) PAH from coal utilisation - emissions and effects. London, United Kingdom: IEA Coal Research; report number ICTIS/TR29.
- Smith, J. S.; Brandon, S. (1973) Morbidity from acute carbon monoxide poisoning at three year follow-up. Br. Med. J. 1: 318-321.
- Smith, K. R. (1986) Biomass combustion and indoor air pollution: the bright and dark sides of small is beautiful. Environ. Manage. 10: 61-74.
- Smith, K. R. (1986) The importance of indoor air pollution to personal exposures in developing countries. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 43-47.

Smith, K. R.; Apte, M.; Menon, P.; Shrestha, M. (1984) Carbon monoxide and particulates from cooking stoves: results from a simulated village kitchen. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 389-395. Available from: NTIS, Springfield, VA; PB85-104214.

Smith, R. M.; Rogers, R. M.; Horton, F. O., III; McCallum, R. E. (1981) Lung mechanics and a simultaneous comparison of alveolar, pleural and peritoneal phagocytic cells lavaged from fasted infection-free oxygen toxic rats. In: Zwillich, C. W.; Cherniak, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 15S-18S.

Smolen, M. (1984) The healthy home: radon remedies. Here's how to rid your home of this deadly gas. Rodale's New Shelter 5: 28-32, 81.

Snodgrass, D. R.; McLemore, T. L.; Teague, R. B.; Wray, N. P.; Busbee, D. L. (1981) Aryl hydrocarbon hydroxylase activity in pulmonary macrophages and blood lymphocytes. In: Zwillich, C. W.; Cherniak, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 42S-44S.

Soczek, M. L.; Ryan, P. B.; Spengler, J. D.; Fowler, F. J.; Billick, I. H. (1985) A survey methodology for characterization of residential NO<sub>2</sub> concentrations. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-31.1.

Soczek, M. L.; Ryan, P. B.; Treitman, R. D.; Spengler, J. D.; Porter, J. L.; Billick, I. H. (1986) The Boston residential NO<sub>2</sub> characterization study: an evaluation of the survey methodology. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-5.9.

Soedergren, D. (1982) A CO<sub>2</sub>-controlled ventilation system. Environ. Int. 8: 483-486.

Soliman, M. Y.; Rosenstreich, D. L. (1986) Natural immunity to dust mites in adults with chronic asthma: I. mite-specific serum IgG and IgE. Am. Rev. Respir. Dis. 134: 962-968.

Solli, H. M.; Andersen, A.; Stranden, E.; Langard, S. (1985) Cancer incidence among workers exposed to radon and thoron daughters at a niobium mine. Scand. J. Work Environ. Health 11: 7-13.

Solomon, W. R. (1975) Assessing fungus prevalence in domestic interiors. J. Allergy Clin. Immunol. 56: 235-242.

Solomon, W. R.; Burge, H. A. (1984) Allergens and pathogens. In: Walsh, P.; Dudney, C.; Copenhaver, E., eds. Indoor air quality. Boca Raton, FL: CRC Press, Inc.; pp. 173-191.

- Solomons, K.; Cochrane, J. W. C. (1984) Formaldehyde toxicity: Part II. review of acute and chronic effects on health. *S. Afr. Med. J.* 66: 103-106.
- Sone, S.; Higashihara, T.; Kotake, T.; Morimoto, M.; Miura, T.; Ogawa, M.; Sugimoto, T. (1974) Pulmonary manifestations in acute carbon monoxide poisoning. *Am. J. Roentgenol.* 120: 865-871.
- Sorantin, H.; Steger, F. (1984) Natural radioactivity of building materials in Austria. *Radiat. Prot. Dosim.* 7: 59-61.
- Soutar, C.; Copland, L.; Thornley, P.; Hurley, F.; Ottery, J.; Adams, W.; Bennett, B. (1981) An epidemiologic study of respiratory disease in workers exposed to polyvinylchloride dust. In: Zwillich, C. W.; Cherniack, R. M., eds. *The 23rd Aspen lung conference: the environment and the lung*; June 1980; Aspen, CO. *Chest* 80: 60S.
- Speizer, F. E. (1981) Epidemiology of environmentally-induced chronic respiratory disease. In: Zwillich, C. W.; Cherniack, R. M., eds. *The 23rd Aspen lung conference: the environment and the lung*; June 1980; Aspen, CO. *Chest* 80: 21S-22S.
- Speizer, F. E.; Ferris, B. J., Jr.; Bishop, Y. M. M.; Spengler, J. (1980) Health effects of indoor NO<sub>2</sub> exposure: preliminary results. In: Lee, S. D., ed. *Nitrogen oxides and their effects on health*. Ann Arbor, MI: Ann Arbor Science Publishers, Inc.; pp. 343-359.
- Speizer, F. E.; Ferris, B., Jr.; Bishop, Y. M. M.; Spengler, J. (1980) Respiratory disease rates and pulmonary function in children associated with NO<sub>2</sub> exposure. *Am. Rev. Respir. Dis.* 121: 3-10.
- Spence, J. W.; Haynie, F.; Upham, J. B. (1975) Effects of gaseous pollutants on paints: a chamber study. *J. Paint Technol.* 47: 57-63.
- Spendlove, J. C.; Fannin, K. F. (1983) Source, significance, and control of indoor microbial aerosols: human health aspects. *Public Health Rep.* 98: 229-244.
- Spengler, J. D. (1986) The importance of indoor air pollution to personal exposures in industrialized societies. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 37-41.
- Spengler, J. D.; Billick, I.; Ryan, P. B. (1984) Modeling population exposures to airborne lead. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 87-94. Available from: NTIS, Springfield, VA; PB85-104214.

- Spengler, J. D.; Dockery, D. W.; Turner, W. A.; Wolfson, J. M.; Ferris, B. G., Jr. (1981) Long-term measurements of respirable sulfates and particles inside and outside homes. *Atmos. Environ.* 15: 23-30.
- Spengler, J. D.; Duffy, C. P.; Letz, R.; Tibbitts, T. W.; Ferris, B. G., Jr. (1983) Nitrogen dioxide inside and outside 137 homes and implications for ambient air quality standards and health effects research. *Environ. Sci. Technol.* 17: 164-168.
- Spengler, J. D.; Ferris, B. G., Jr.; Dockery, D. W.; Speizer, F. E. (1979) Sulfur dioxide and nitrogen dioxide levels inside and outside homes and the implications on health effects research. *Environ. Sci. Technol.* 13: 1276-1280.
- Spengler, J. D.; Moschandreas, D. J. (1982) Indoor air pollution. In: Spengler, J.; Hollowell, C.; Moschandreas, D.; Fanger, O., eds. *Indoor air pollution: proceedings of the international symposium on indoor air pollution, health and energy conservation; October; Amherst, MA. Pittsburgh, PA*: New York, NY: Pergamon Press; pp. 3-4.
- Spengler, J. D.; Reed, M. P.; Lebret, E.; Chang, B.-H.; Ware, J. H.; Speizer, F. E.; Ferris, B. G., Jr. (1986) Harvard's indoor air pollution/health study. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-6.6.
- Spengler, J. D.; Sexton, K. (1983) Indoor air pollution: a public health perspective. *Science (Washington, DC)* 221: 9-17.
- Spengler, J. D.; Soczek, M. L. (1984) Evidence for improved ambient air quality and the need for personal exposure research. *Environ. Sci. Technol.* 18: 268A-280A.
- Spengler, J. D.; Thurston, G. D. (1983) Mass and elemental composition of fine and coarse particles in six U. S. cities. *J. Air Pollut. Control Assoc.* 33: 1162-1171.
- Spengler, J. D.; Treitman, R. D.; Tosteson, T. D.; Mage, D. T.; Soczek, M. L. (1985) Personal exposures to respirable particulates and implications for air pollution epidemiology. *Environ. Sci. Technol.* 19: 700-707.
- Spicer, C. W.; Coutant, R. W.; Ward, G. F.; Gaynor, A. J.; Billick, I. H. (1986) Removal of nitrogen oxide from indoor air by residential materials. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, Ga. Atlanta, Ga: American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.*; pp. 584-590.
- Spicer, C. W.; Slivon, L. E.; Coutant, R. W.; Graves, M. E.; Shadwick, D. S.; McClenney, W. A.; Mulik, J. D.; Fitz-Simons, T. R. (1986) Intercomparison of sampling techniques for toxic organic compounds in indoor air. In: *Proceedings of the 1986 EPA/APCA symposium on measurement of toxic air pollutants; April; Raleigh, NC*; pp. 45-60.

- Spiers, F. W. (1979) Background radiation and estimated risks from low-dose irradiation. *Health Phys.* 37: 784-788.
- Spitz, H. B.; Wrenn, M. E.; Cohen, N. (1980) Diurnal variation of radon measured indoors and outdoors in Grand Junction, CO and Teaneck, NJ and the influence that ventilation has. In: Gesell, T. F.; Lowder, W. M., eds. *Natural radiation environment III.*, v. 2; pp. 1308-1329. U. S. Department of Commerce. Available from: NTIS, Springfield, VA; CONF-780442.
- Squirrel, M. (1985) Indoor air quality. *Environ. Health* 93: 299-301.
- Srivastava, G. K.; Raghavayya, M.; Khan, A. H.; Kotrappa, P. (1984) A low-level radon detection system. *Health Phys.* 46: 225-228.
- Staats, E. (1980) Need for a formal risk/benefit review. The pesticide chlordane. U. S. Environmental Protection Agency, Comptroller General, General Accounting Office letter B-199618 to administrator of EPA; August 5.
- Staib, F. (1982) Mykosen durch Pilzsporen in der Raumluft [Mycoses caused by fungal spores occurring in indoor air]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. *Luftqualitaet in Innenraeumen* [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 369-383. (*Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene* no. 53).
- Stannard, J. N. (1980) Comments on "Memorandum to the files, March 14, 1951: hazards associated with radon and thoron" by William F. Bale. *Health Phys.* 38: 1061-1066.
- Stannard, J. N. (1980) Comments on "Sampling and measurement of airborne daughter products of radon" by John H. Harley. *Health Phys.* 38: 1067-1074.
- Stara, J. F.; Dungworth, D. L.; Orthofer, J. G.; Tyler, W. S., eds. (1980) Long term effects of air pollutants: in canine species. Cincinnati, OH: U. S. Environmental Protection Agency, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-80-014. Available from: NTIS, Springfield, VA; PB81-144875.
- Stark, A. A.; Essigmann, J. M.; Demain, A. L.; Skopek, T. R.; Wogan, G. N. (1979) Aflatoxin B<sub>1</sub> mutagenesis, DNA binding, and adduct formation in Salmonella typhimurium. *Proc. Natl. Acad. Sci. U. S. A.* 76: 1343-1347.
- Starr, H. G., Jr.; Aldrich, F. D.; McDougal, W. D., III; Mounce, L. M. (1974) Contribution of household dust to the human exposure to pesticides. *Pestic. Monit. J.* 8: 209-212.
- State of California. (1984) Building closeout procedure. Sacramento, CA: Office of the State Architect.
- State of Idaho. (1983) Residential wood burning study. Boise, ID: Department of Health and Welfare, Division of Environment.

- Stavert, D. M.; Archuleta, D. C.; Holland, L. M.; Lehnert, B. E. (1986) Nitrogen dioxide exposure and development of pulmonary emphysema. *J. Toxicol. Environ. Health* 17: 249-267.
- Stayner, L. T.; Elliott, L.; Blade, L.; Keenlyside, R.; Halperin, W. (1986) A retrospective cohort mortality study of workers exposed to formaldehyde in the garment industry.
- Steele, D. H. (1985) Chlorocarbons - laboratory analysis of household products: draft final report. Kansas City, MO: Midwest Research Institute; EPA contract no. 68-02-3839.
- Steensberg, J. (1984) Indoor climate problems in day institutions for children: practical, administrative and policy perspectives. *Scand. J. Soc. Med. Suppl.* 36.
- Stein, L. (1983) The chemistry of radon. *Radiochim. Acta* 32: 163-171.
- Stein, L. (1985) New evidence that radon is a metalloid element: ion-exchange reactions of cationic radon. *J. Chem. Soc. Chem. Commun.* 1096: 1631-1632.
- Stein, L. (1987) Chemical properties of radon. In: Hopke, P. K., ed. Radon and its decay products: occurrence, properties, and health effects; April; New York, NY. Washington, DC: American Chemical Society; in press. (ACS symposium series).
- Stein, L.; Hohorst, F. A. (1982) Collection of radon with solid oxidizing reagents. *Environ. Sci. Technol.* 16: 419-422.
- Steinhaeusler, F. (1975) Long-term measurements of  $^{222}\text{Rn}$ ,  $^{220}\text{Rn}$ ,  $^{214}\text{Pb}$  and  $^{212}\text{Pb}$  concentrations in the air of private and public buildings and their dependence on meteorological parameters. *Health Phys.* 29: 705-713.
- Steinhaeusler, F. (1987) On the validity of risk assessments for radon daughters induced lung cancer. In: Hopke, P. K., ed. Radon and its decay products: occurrence, properties, and health effects; April; New York, NY. Washington, DC: American Chemical Society; in press. (ACS symposium series).
- Steinhaeusler, F.; Hofmann, W.; Pohl, E.; Pohl-Rueling, J. (1983) Radiation exposure of the respiratory tract and associated carcinogenic risk due to inhaled radon daughters. *Health Phys.* 45: 331-337.
- Steinhaeusler, F.; Pohl, E. (1984) Lung cancer risk for miners and atomic bomb survivors and its relevance to indoor exposure. *Radiat. Prot. Dosim.* 7: 389-394.
- Steinhaeusler, F.; Uzunov, I.; Pohl, E. (1985) The main inconsequences in the present radiological protection concept for the general population. *Health Phys.* 49: 1229-1238.
- Sterling, D. A. (1985) Volatile organic compounds in indoor air: an overview of sources, concentrations, and health effects. In: Gammage, R. B.; Kaye, S. B.; Jacobs, V. A., eds. Indoor air and human health. Chelsea, MI: Lewis Publishers, Inc.; pp. 387-402.

- Sterling, D. A.; Clark, C.; Bjornson, S. (1982) The effect of air control systems on the indoor distributions of viable particles. *Environ. Int.* 8: 409-414.
- Sterling, E. M.; Sterling, T. D.; Sterling, D. A. (1984) Air quality in hospitals and laboratories. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-1.4.
- Sterling, E. M.; Sterling, T. D. (1984) Air quality in hospitals and health care facilities. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air quality: proceedings of the 3rd international conference on indoor air quality and climate*, v. 5, buildings, ventilation and thermal climate; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 209-214.
- Sterling, E.; Sterling, T.; McIntyre, D. (1983) New health hazards in sealed buildings. *Am. Inst. Architects J.* 72: 64-67.
- Sterling, E.; Sterling, T. (1983) The impact of different ventilation levels and fluorescent lighting types on building illness: an experimental study. *Can. J. Public Health* 74: 385-392.
- Sterling, T. D.; Arundel, A.; Collett, C. W.; Nantel, A. J. (1986) Dose-response effects of UFFI. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-67.5.
- Sterling, T. D.; Dimich, H.; Kobayashi, D. M. (1982) Indoor byproduct levels of tobacco smoke: a critical review of the literature. *J. Air Pollut. Control Assoc.* 32: 250-259.
- Sterling, T. D.; Kobayashi, D. M. (1977) Exposure to pollutants in enclosed "living spaces." *Environ. Res.* 13: 1-35.
- Sterling, T. D.; Kobayashi, D. M. (1981) Use of gas ranges for cooking and heating in urban dwellings. *J. Air Pollut. Control Assoc.* 31: 162-165.
- Sterling, T. D.; Sterling, E. (1979) Carbon monoxide levels in kitchens and homes with gas cookers. *J. Air Pollut. Control Assoc.* 29: 238-241.
- Stevens, R. K. (1983) Analytical measurements for use in source apportionment studies to determine impact of wood burning on visibility and fine particle mass. Presented at: The workshop on residential wood and coal combustion; November-December; Portland, OR. Research Triangle Park, NC: U. S. Environmental Protection Agency.
- Stevens, R. K.; McClenney, W. A.; Dzubay, T. G.; Mason, M. A.; Courtney, W. J. (n.d.) Analytical methods to measure the carbonaceous content of aerosols.
- Stevenson, M. F. et al. (1978) Effect on carboxy-hemoglobin of exposure to aerosol spray paints with methylene chloride. *Clin. Toxicol.* 6: 99-104.

- Stewart, P. A.; Blair, A.; Cubit, D. A.; Bales, R. E.; Kaplan, S. A.; Ward, J.; Gaffey, W.; O'Berg, M. T.; Walrath, J. (n.d.) Estimating historical exposures to formaldehyde in a retrospective mortality study. Bethesda, MD: National Cancer Institute.
- Stewart, R. D.; Hake, C. L. (1976) Paint-remover hazard. *JAMA J. Am. Med. Assoc.* 235: 398-401.
- Stewart, R. D.; Stewart, R. S.; Stamm, W.; Seelen, R. P. (1976) Rapid estimation of carboxyhemoglobin level in fire fighters. *JAMA J. Am. Med. Assoc.* 235: 390-392.
- Stock, T. H.; Kim, Y. S.; Prichard, H. M.; Dattner, S. L. (1985) An investigation of inhalable particulates in twelve Houston homes. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-30A.4
- Stock, T. H.; Mendez, S. R. (1985) A survey of typical exposures to formaldehyde in Houston area residences. *Am. Ind. Hyg. Assoc. J.* 46: 313-317.
- Stock, T. H.; Monsen, R. M.; Sterling, D. A.; Norsted, S. W. (1985) Indoor air quality inside manufactured housing in Texas. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-85.1.
- Stock, T. H.; Shin Kim, Y.; Morandi, M. T. (1986) Characterization of indoor exposures to gaseous pollutants in twelve Houston homes. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-5.4.
- Stock, T. H.; Sterling, D. A.; Monsen, R. M. (1984) A survey of indoor air quality in Texas mobile homes. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 331-334. Available from: NTIS, Springfield, VA; PB85-104214.
- Stolwijk, J. A. J. (1987) Comprehensive environmental protection for the U.S. population.
- Stolwijk, J. A. J. (1987) Modeling of source emissions. In: *Symposium on the characterization of contaminant emissions from indoor sources*; Chapel Hill, NC.
- Stoute, J. R. D.; Groen, G. C. H.; de Groot, T. J. H. (1984) Characterisation of indoor atmospheres. *Radiat. Prot. Dosim.* 7: 159-163.
- Stradhilevitz, M.; Strahilevitz, A.; Miller, J. E. (1979) Air pollutants and the admission rate of psychiatric patients. *Am. J. Psychiatry* 136: 205-207.

- Strain, C. D.; Watson, J. E., Jr.; Fong, S.-W. (1979) An evaluation of  $^{226}\text{Rn}$  and  $^{222}\text{Rn}$  concentrations in ground and surface water near a phosphate mining and manufacturing facility. *Health Phys.* 37: 779-783.
- Stranden, E. (1979) A simple method for measuring the radon diffusion coefficient and exhalation rate from building materials. *Health Phys.* 37: 242-244.
- Stranden, E. (1980) Thoron and radon daughters in different atmospheres. *Health Phys.* 38: 777-785.
- Stranden, E. (1981) Radon in houses utilizing stone magazines for heat accumulation. *Health Phys.* 41: 29-33.
- Stranden, E. (1984) Thoron ( $^{220}\text{Rn}$ ) daughter to radon ( $^{222}\text{Rn}$ ) daughter ratios in thorium-rich areas. *Health Phys.* 47: 784-785.
- Stranden, E. (1986) Radon-222 in Norwegian dwellings. In: Hopke, P. K., ed. *Radon and its decay products: occurrence, properties, and health effects*; April; New York, NY. Washington, DC: American Chemical Society; in press. (ACS symposium series).
- Stranden, E.; Berteig, L.; Ugletveit, F. (1979) A study on radon in dwellings. *Health Phys.* 36: 413-421.
- Stranden, E.; Berteig, L. (1980) Radon in dwellings and influencing factors. *Health Phys.* 39: 275-284.
- Stranden, E.; Kolstad, A. K.; Lind, B. (1984) Radon exhalation: moisture and temperature dependence. *Health Phys.* 47: 480-484.
- Stranden, E.; Kolstad, A. K.; Lind, B. (1984) The influence of moisture and temperature on radon exhalation. *Radiat. Prot. Dosim.* 7: 55-58.
- Stroup, N. E. (1979) Brain cancer and other causes of death on the pulmonary function of children. *Am. J. Epidemiol.* 110: 15-26.
- Stutts, M. J.; Gatzky, J. T.; Knowles, M. R.; Cotton, C. U.; Boucher, R. C. (1986) Effects of formaldehyde on bronchial ion transport. *Toxicol. Appl. Pharmacol.* 82: 360-367.
- Sugimura, T. (1985) Carcinogenicity of mutagenic heterocyclic amines formed during the cooking process. *Mutat. Res.* 150: 33-41.
- Sugimura, T.; Takayama, S. (1983) Biological actions of nitroarenes in short-term tests on Salmonella, cultured mammalian cells and cultured human tracheal tissues: possible basis for regulatory control. *EHP Environ. Health Perspect.* 47: 171-176.
- Summerlin, J., Jr.; Prichard, H. M. (1985) Radiological health implications of lead-210 and polonium-210 accumulations in LPG refineries. *Am. Ind. Hyg. Assoc. J.* 46: 202-205.

- Sun, M. (1981) Study shows formaldehyde is carcinogenic. *Science* (Washington, DC) 213: 1232.
- Sundell, J. (1982) Guidelines for Nordic building regulations regarding indoor air quality. *Environ. Int.* 8: 17-20.
- Suomi, U. (1985) Controlling of the outdoor air intake by the use of contaminant monitoring. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 321-326.
- Surgeon General of the United States. (1979) *Smoking and health*. Washington, DC: U. S. Department of Health, Education, and Welfare, Public Health Service; publication no. (PHS) 79-50066.
- Surgeon General of the United States. (1986) *The health consequences of involuntary smoking: a report of the Surgeon General*. Rockville, MD: U. S. Department of Health and Human Services, Public Health Service.
- Suta, B. E. (1980) Population exposures to atmospheric formaldehyde inside residences, final report. Washington, DC: U. S. Environmental Protection Agency, Office of Research and Development; contract no. 68-01-4314.
- Sutton, G. C. (1981) Passive smoking and lung cancer. *Br. Med. J.* 282: 733.
- Swanson, M. C.; Agarwal, M. K.; Reed, C. E. (1985) An immunochemical approach to indoor aeroallergen quantitation with a new volumetric air sampler: studies with mite, roach, cat, mouse, and guinea pig antigens. *J. Allergy Clin. Immunol.* 76: 724-729.
- Swedjemark, G. A. (1983) The equilibrium factor F. *Health Phys.* 45: 453-462.
- Swedjemark, G. A. (1984) Temporal variations of the radon concentration indoors. *Radiat. Prot. Dosim.* 7: 255-258.
- Swedjemark, G. A. (1986) Swedish limitation schemes to decrease Rn daughters in indoor air. *Health Phys.* 51: 569-578.
- Swedjemark, G. A.; Buren, A.; Mjoenes, L. (1986) A comparison of radon levels in Swedish homes in the 1980s and thirty years ago. In: Hopke, P. K., ed. *Radon and its decay products: occurrence, properties, and health effects*; April; New York, NY. Washington, DC: American Chemical Society; in press. (ACS symposium series).
- Swedjemark, G. A.; Mjoenes, L. (1984) Radon and radon daughter concentrations in Swedish homes. *Radiat. Prot. Dosim.* 7: 341-345.
- Swenberg, J. A.; Kerns, W. D.; Mitchell, R. I.; Gralla, E. J.; Pavkov, K. L. (1980) Induction of squamous cell carcinomas of the rat cavity by inhalation exposure to formaldehyde vapor. *Cancer. Res.* 40: 3398-3401.
- Sykora, J.; Karol, M.; Keleti, G.; Novak, D. (1982) Amoebae as sources of hypersensitivity pneumonitis. *Environ. Int.* 8: 343-347.

- Szalai, A., ed. (1972) *The use of time: daily activities of urban and suburban populations in 12 countries*. The Hague, The Netherlands: Mouton and Co.
- Tadmor, J. (1986) Sensitivity analysis of the influence of source-term and environmental parameters on the radiological risk of coal-fired plants. *Health Phys.* 51: 61-80.
- Tager, I. B.; Weiss, S. T.; Rossner, B.; Speizer, F. E. (1979) Effect of parental cigarette smoking on the pulmonary function of children. *Am. J. Epidemiol.* 110: 15-26.
- Tager, I. B.; Weiss, S. T.; Munoz, A.; Rosner, B.; Speizer, F. E. (1983) Longitudinal study of the effects of maternal smoking on pulmonary function in children. *New. Engl. J. Med.* 309: 699-703.
- Tamura, G. T. (1980) Carbon dioxide measurement in open-classroom school with outside air-supply damper closed to conserve energy. Ottawa, ON, Canada: National Research Council of Canada, Division of Building Research; building research note no. 169.
- Tancrede, M.; Wilson, R.; Zeise, L.; Crouch, E. A. D. (1986) The carcinogenic risk of organic vapors indoors: a survey. Cambridge, MA: Harvard University, Energy and Environmental Policy Center; E-86-06.
- Taniguchi, H. (1977) Radon-222 and its daughters in buildings at Uranium City, Saskatchewan. In: Breslin, A. J., ed. *Radon workshop*; February; HASL-325; CONF-770231.
- Taniguchi, H.; Vasudev, P. (1980) Radon and radon daughters due to natural uranium occurrences in a rural Ontario community. In: Gesell, T. F.; Lowder, W. M., eds. *Natural radiation environment III*, v. 2; pp. 1272-1292. U. S. Department of Commerce. Available from: NTIS, Springfield, VA; report no. CONF-780442.
- Tappan, J. T. (1985) Indoor radon and engineering assessment of residential structures located in the Reading Prong area. Philadelphia, PA: Pennsylvania Department of Environmental Resources, Bureau of Radiation Protection.
- Tashkin, D. P.; Clark, V. A.; Simmons, M.; Reems, C.; Coulson, A. H.; Bourque, L. B.; Sayre, J. W.; Detels, R.; Rokaw, S. (1984) The UCLA population studies of chronic obstructive respiratory disease: relationship between parental smoking and children's lung function. *Am. Rev. Respir. Dis.* 129: 891-897.
- Taylor, N. A.; Pickering, C. A. C.; Turner-Warwick, M.; Pepys, J. (1978) Respiratory allergy to a factory humidifier contaminant presenting as pyrexia of undetermined origin. *Br. Med. J.* 2(6129): 94-95.
- Tejada, S. (1986) *J. Environ. Anal. Chem.* 26: 167-185.
- Tennessee Valley Authority. (1985) Indoor air quality study, phase II. Chattanooga, TN: Tennessee Valley Authority, Division of Conservation and Energy Management.

Tennessee Valley Authority. (1986) TVA/BPA indoor air quality study, v. 1. Chattanooga, TN: Tennessee Valley Authority, Division of Conservation and Energy Management.

TerKonda, P. K.; Liaw, S. L. (1983) Monitoring of indoor aldehydes. In: Proceedings of the specialty conference on measurement & monitoring of non-criteria contaminants in air; March; Chicago, IL; pp. 435-440.

Thilly, W. G.; Longwell, J.; Andon, B. M. (1983) General approach to the biological analysis of complex mixtures. *EHP Environ. Health Perspect.* 48: 129-136.

Thomas, D. C.; McNeill, K. G.; Dougherty, C. (1979) The pulmonary function of children. *Am. J. Epidemiol.* 110: 15-26.

Thomas, D. C.; McNeill, K. G. (1982) Risk estimates for the health effects of alpha radiation. Ottawa, Ontario: Atomic Energy Control Board; document no. INFO-0081.

Thomas, D. C.; McNeill, K. G.; Dougherty, C. (1985) Estimates of lifetime lung cancer risks resulting from Rn progeny exposure. *Health Phys.* 49: 825-846.

Thomas, J. R.; Schrot, J.; Liboff, A. R. (1986) Low-intensity magnetic fields alter operant behavior in rats. *Bioelectromagnetics* 7: 349-357.

Thomas, T. C. (1986) An historical perspective of air pollution chemistry. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-31.6.

Thome, F. A.; Heavner, D. L.; Ingebrethsen, B. J.; Eudy, L. W.; Green, C. R. (1986) Environmental tobacco smoke monitoring with an atmospheric pressure chemical ionization mass spectrometer/mass spectrometer coupled to test a chamber. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-37.6.

Thompson, C. R.; Mensel, E. G.; Kutz, G. (1973) Outdoor-indoor levels of six air pollutants. *J. Air Pollut. Control Assoc.* 10: 881-886.

Thomson, V. E. (1984) Indoor air pollution: ramifications for assessing the magnitude and nature of the air toxics problem in the United States. U. S. Environmental Protection Agency, Office of Policy, Planning and Evaluation.

Thomson, V. E. (1985) Does EPA have a policy on indoor air pollution? Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-46.2.

Thomson, V. E.; Jones, A.; Haemisegger, E.; Steigerwald, B. (1985) The air toxics problem in the United States: an analysis of cancer risks posed by selected air pollutants. *J. Air Pollut. Control Assoc.* 35: 535-540.

- Thron, H. L.; Biesewig, G. (1984) Indoor and outdoor lead burden in pregnant women and newborns in the region Nordenham. Schriftenr. Ver. Wasser Boden Lufthyg. 59: 231-253; EPA translation no. TR-87-0019.
- Thun, M. J.; Lakat, M. F.; Altman, R. (1982) Symptoms survey of residents of homes insulated with urea-formaldehyde foam. Environ. Res. 29: 320-334.
- Tichenor, B. A.; Jackson, M. D.; Merrill, R. G. (1986) Measurement of organic emissions from indoor materials - small chamber studies. Presented at: EPA/APCA symposium on measurement of toxic air pollutants; April; Raleigh, NC. EPA report no. EPA-600/9-86-013.
- Tichenor, B. A.; Mason, M. A. (1986) Characterization of organic emissions from selected materials in indoor use. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-16.5.
- Till, J. E. (1986) Quantification of source terms in assessing dose [letter]. Health Phys. 51: 385-386.
- Tiller, A. K. (1982) Aspects of microbial corrosion. In: Parkins, R. N., ed. Corrosion processes. London, United Kingdom: Applied Science Publishers; pp. 115-159.
- Tilton, B. E.; Bruce, R. M. (1981) Review of criteria for vapor-phase hydrocarbons. Research Triangle Park, NC: U. S. Environmental Protection Agency, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-81-022. Available from: NTIS, Springfield, VA; PB82-136516.
- Tokiwa, H.; Nakagawa, R.; Horikawa, K. (1985) Mutagenic/carcinogenic agents in indoor pollutants: the dinitropyrenes generated by kerosene heaters and fuel gas and liquefied petroleum gas burners. Mutat. Res. 157: 39-47.
- Tomenius, L. (1986) 50-Hz electromagnetic environment and the incidence of childhood tumors in Stockholm County. Bioelectromagnetics 7: 191-207.
- Tonkelaar, W. A. M.; Rudolf, W. (1982) Luftqualitaet im Innern von Kraftfahrzeugen [Air quality inside motor-cars]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 219-230. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Toohey, R. E.; Essling, M. A.; Rundo, J.; Hengde, W. (1984) Measurements of the deposition rates of radon daughters on indoor surfaces. Radiat. Prot. Dosim. 7: 143-146.
- Tosteson, T. D.; Spengler, J. D.; Weker, R. A. (1982) Aluminum, iron, and lead content of respirable particulate samples from a personal monitoring study. Environ. Int. 8: 265-268.
- Toth, A. (1984) A simple field method for determination of  $^{220}\text{Rn}$  and  $^{222}\text{Rn}$  daughter energy concentrations in room air. Radiat. Prot. Dosim. 7: 247-250.

- Tovedal, H. (1984) Radon measurement activities and instruments designed at Studsvik Energiteknik AB. Radiat. Prot. Dosim. 7: 215-218.
- Transmission/distribution health and safety. (1986) In: Transmission/distribution health and safety report. 3(10): 1.
- Traynor, G. W. (1985) Field monitoring design considerations for assessing indoor exposures to combustion pollutants. Berkeley, CA: Lawrence Berkeley Laboratory, Building Ventilation & Indoor Air Quality Program; LBL-19844. Atmos. Environ.: submitted.
- Traynor, G. W., et al. (1984) Indoor air pollution and interroom transport due to unvented space heaters. LBL-17600. Available from: NTIS, Springfield, VA; CONF-840803-2.
- Traynor, G. W.; Allen, J. R.; Apte, M. G.; Dillworth, J. F.; Girman, J. R.; Hollowell, C. D.; Koonce, J. F., Jr. (1982) Indoor air pollution from portable kerosene-fired space heaters, wood-burning stoves, and wood-burning furnaces. In: Proceedings of the Air Pollution Control Association specialty conference on residential wood and coal combustion; March; Louisville, KY. Pittsburgh, PA: Air Pollution Control Association; pp. 253-263.
- Traynor, G. W.; Allen, J. R.; Apte, M. G.; Dillworth, J. F.; Girman, J. R.; Hollowell, C. D.; Koonce, J. F. (1982) Indoor air pollution from portable kerosene-fired space heaters, wood-burning stoves, and wood-burning furnaces. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-14027.
- Traynor, G. W.; Allen, J. R.; Apte, M. G.; Carruthers, A. R.; Dillworth, J. F.; Girman, J. R.; Martin, V. M. (1983) Indoor air pollution due to emissions from unvented gas-fired space heaters: a controlled field study. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-15130.
- Traynor, G. W.; Allen, J. R.; Apte, M. G.; Girman, J. R.; Hollowell, C. D. (1983) Pollutant emissions from portable kerosene-fired space heaters. Environ. Sci. Technol. 17: 369-371.
- Traynor, G. W.; Anthon, D. W.; Hollowell, C. D. (1982) Technique for determining pollutant emissions from a gas-fired range. Atmos. Environ. 16: 2979-2987.
- Traynor, G. W.; Apte, M. G.; Dillworth, J. F.; Hollowell, C. D.; Sterling, E. M. (1982) The effects of ventilation on residential air pollution due to emissions from a gas-fired range. Environ. Int. 8: 447-452.
- Traynor, G. W.; Apte, M. G.; Dillworth, J. F.; Grimsrud, D. T. (1983) Indoor air pollution from portable kerosene-fired space heaters. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-15612.

- Traynor, G. W.; Apte, M. G.; Carruthers, A. R.; Dillworth, J. F.; Grimsrud, D. T.; Gundel, L. A. (1984) Indoor air pollution to emissions from wood burning stoves. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-33.4.
- Traynor, G. W.; Apte, M. G.; Sokol, H. A.; Chuang, J. C.; Mumford, J. L. (1986) Selected organic pollutant emissions from unvented kerosene heaters. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-52.5.
- Traynor, G. W.; Girman, J. R.; Allen, M. G.; Apte, A. R.; Carruthers, J.; Dillworth, J. F.; Martin, V. M. (1983) Indoor air pollution due to emissions from unvented gas-fired space heaters. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-15878.
- Traynor, G. W.; Girman, J. R.; Apte, M. G.; Dillworth, J. F.; White, P. D. (1985) Indoor air pollution due to emissions from unvented gas-fired space heaters. *J. Air Pollut. Control Assoc.* 35: 231-237.
- Traynor, G. W.; Nitschke, I. A. (1984) Field survey of indoor air pollution in residences with suspected combustion-related sources. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 343-348. Available from: NTIS, Springfield, VA; PB85-104214.
- Traynor, G. W.; Nitschke, I. A.; Clarke, W. A.; Adams, G. P.; Rizzuto, J. E. (1985) A detailed study of thirty houses with indoor combustion sources. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-30A.3
- TRC Environmental Consultants, Inc. (1987) Evaluation of indoor air quality data for making risk assessments. East Hartford, CT: Electric Power Research Institute; RP 1948-1.
- Treitman, R. D.; Spengler, J. D. (1984) Equipment for personal and portable air monitoring: a state-of-the-art survey and review. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 63-68. Available from: NTIS, Springfield, VA; PB85-104214.
- Trepte, L. (1985) Guidelines for minimum ventilation rates: the IEA Annex IX. In: Fanger, P. O., ed. *CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning*, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 279-284.
- Tribukait et al. (1986) May; Sweden; conference.

- Trichopoulos, D.; Kalandidi, A.; Saparros, L.; MacMahon, B. (1981) Lung cancer and passive smoking. *Int. J. Cancer* 27: 1-4.
- Trichopoulos, D.; Kalandidi, A.; Saparros, L. (1983) Lung cancer and passive smoking: conclusion of Greek study [letter]. *Lancet* 2: 677-678.
- Triebig, G.; Zober, M. A. (1984) Indoor air pollution by smoke constituents - a survey. *Prev. Med.* 13: 570-581.
- Trzos, R. J.; Petzold, G. L.; Brunden, M. N.; Swenberg, J. A. (1978) The evaluation of sixteen carcinogens in the rat using the micronucleus test. *Mutat. Res.* 58: 79-86.
- Tucker, W. G. (1986) EPA research on indoor air quality. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-11.5.
- Tucker, W. G. (1986) Research overview: sources of indoor air pollutants. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 395-404.
- Tucker, W. G. (1987) Chairman's summary, session I. Characterization of emissions from combustion sources: controlled studies. In: *Symposium on the characterization of contaminant emissions from indoor sources*; Chapel Hill, NC. *Atmos. Environ.* 21: 281-284.
- Turiel, I. (1985) Indoor air quality and human health. Stanford, CA: Stanford University Press.
- Turiel, I.; Hollowell, C. D.; Miksch, R. R.; Rudy, J. V.; Young, R. A.; Coye, M. J. (1981) The effects of reduced ventilation on indoor air quality in an office building. Berkeley, CA: Lawrence Berkeley Laboratory, Energy and Environment Division; pp. 1-48.
- Turiel, I.; Hollowell, C. D.; Miksch, R. R.; Rudy, J. V.; Young, R. A.; Coye, M. J. (1983) The effects of reduced ventilation on indoor air quality in an office building. *Atmos. Environ.* 17: 51-64.
- Turk, B. H.; Brown, J. T.; Geisling-Sobotka, K.; Froehlich, D. A.; Grimsrud, D. T.; Harrison, J.; Revzan, K. L. (1986) Indoor air quality measurements in 38 Pacific Northwest commercial buildings. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-5.3.
- Turk, B. H.; Prill, R. J.; Fisk, W. J.; Grimsrud, D. T.; Moed, B. A.; Sextro, R. G. (1986) Radon and remedial action in Spokane River Valley residences. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-43.2.
- Turner, J. E.; Wright, H. A.; Hamm, R. N. (1985) A Monte Carlo primer for health physicists. *Health Phys.* 48: 717-733.

- Tuthill, R. W. (1984) Woodstoves, formaldehyde, and respiratory disease. Am. J. Epidemiol. 120: 952-955.
- U. S. Centers for Disease Control. (1984) Salmonellosis from inadequately pasteurized milk - Kentucky. Morb. Mortal. Wkly. Rep. 33: 505-515.
- U. S. Consumer Product Safety Commission. (1983) Kerosene heaters: project status report and staff recommendations. Washington, DC: U. S. Consumer Product Safety Commission.
- U. S. Department of Energy. (1985) Indoor air quality environmental information handbook: combustion sources. Washington, DC; U. S. Department of Energy, Office of Environmental Analysis; contract no. DE-AC01-81EV10450.
- U. S. Department of Energy. (1985) Indoor air quality environmental information handbook. U. S. Department of Energy; DOE/EV/10450-1.
- U. S. Department of Energy. (1986) Indoor air quality environmental information handbook: radon. Report no. DOE/PE/72013-2.
- U. S. Department of Health and Human Services. (1981) The health consequences of smoking: the changing cigarette: a report of the Surgeon General. Washington, DC: U. S. Public Health Service, Office on Smoking and Health; PHS report no. PHS/81-50156.
- U. S. Department of Health and Human Services. (1982) The health consequences of smoking: cancer. A report of the Surgeon General. Washington, DC: U. S. Government Printing Office; DHHS publication no. DHHS(PHS) 82-50179.
- U. S. Department of Health and Human Services. (1984) The health consequences of smoking: chronic obstructive lung disease: a report of the Surgeon General. Rockville, MA: Public Health Service, Office on Smoking and Health; PHS report no. PHS/84-50205.
- U. S. Department of Health and Human Services. (1986) The health consequences of involuntary smoking: a report of the Surgeon General. Rockville, MD: Public Health Service, Office on Smoking and Health.
- U. S. Department of Labor. (1979) Radiation monitoring. Mine Safety and Health Administration.
- U. S. Environmental Protection Agency. (n.d.) Summary overview of health effects associated with residential wood combustion: health issue assessment. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; unpublished draft.
- U. S. Environmental Protection Agency. (1975) Scientific and technical assessment report on particulate polycyclic organic matter (PPOM). Washington, DC: U. S. Environmental Protection Agency, Office of Program Integration; EPA report no. EPA-600/6-74-001.

- U. S. Environmental Protection Agency. (1978) Sprayed asbestos-containing materials in buildings: a guidance document. Research Triangle Park, NC: Office of Air Quality Planning and Standards; EPA report no. EPA-450/2-78-014. Available from: NTIS, Springfield, VA; PB-280376.
- U. S. Environmental Protection Agency. (1979) Air quality criteria for carbon monoxide. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-79-022. Available from: NTIS, Springfield, VA; PB81-244840.
- U. S. Environmental Protection Agency. (1979) Methods for the analysis of trihalomethanes in drinking water. Cincinnati, OH: Environmental Monitoring and Support Laboratory.
- U. S. Environmental Protection Agency. (1980) Addendum to: "The health consequences of sulfur oxides: a report from CHESS, 1970-1971," May 1974. Washington, DC: Office of Research and Development; EPA report no. EPA-600/1-80-021. Available from: NTIS, Springfield, VA; PB80-181944.
- U. S. Environmental Protection Agency. (1980) National household pesticide usage study, 1976-77. Washington, DC: Office of Pesticide Programs; EPA report no. EPA-540/9-80-002. Available from: NTIS, Springfield, VA; PB81-181570.
- U. S. Environmental Protection Agency. (1981) Methods for the organochlorine pesticides and chlorophenoxy acid herbicides in drinking water and raw source water. EPA report no. EPA-600/4-81-053.
- U. S. Environmental Protection Agency. (1982) Air quality criteria for oxides of nitrogen: final report. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-82-026F. Available from: NTIS, Springfield, VA; PB83-163337.
- U. S. Environmental Protection Agency. (1982) Air quality criteria for particulate matter and sulfur oxides: volume III. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-82-029c.
- U. S. Environmental Protection Agency. (1982) Air quality criteria for particulate matter and sulfur oxides, volume I. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-82-029a.
- U. S. Environmental Protection Agency. (1982) Review of the national ambient air quality standards for nitrogen oxides: assessment of scientific and technical information. Office of Air Quality Planning and Standards; EPA report no. EPA-450/5-82-002.
- U. S. Environmental Protection Agency. (1983) Health assessment document for acrylonitrile. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-82-007F. Available from: NTIS, Springfield, VA; PB84-149152.

- U. S. Environmental Protection Agency. (1983) Health assessment document for toluene. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-82-008F. Available from: NTIS, Springfield, VA; PB84-100056.
- U. S. Environmental Protection Agency. (1983) Methods for chemical analysis of water and wastes. Cincinnati, OH: Environmental Monitoring and Support Laboratory, Office of Research and Development; EPA report no. EPA-600/4-79-020.
- U. S. Environmental Protection Agency. (1984) Carcinogen assessment of coke oven emissions. Washington, DC: Office of Health and Environmental Assessment; EPA report no. EPA-600/6-82-003F.
- U. S. Environmental Protection Agency. (1984) Revised evaluation of health effects associated with carbon monoxide exposure: an addendum to the 1979 air quality criteria document for carbon monoxide. Washington, DC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-83-033F. Available from: NTIS, Springfield, VA; PB85-103471.
- U. S. Environmental Protection Agency. (1984) Summary of the issues with regard to the carcinogenicity, mutagenicity, and exposure of polycyclic organic matter (POM). Washington, DC: Office of Health and Environmental Assessment.
- U. S. Environmental Protection Agency. (1984) Evaluation of waterborne radon impact on indoor air quality and assessment of control options. Research Triangle Park, NC: U. S. Environmental Protection Agency, Industrial Environmental Research Laboratory; EPA report no. EPA-600/7-84-093. Available from: NTIS, Springfield, VA; PB84-246404.
- U. S. Environmental Protection Agency. (1984) Health effects assessment for carbon tetrachloride. Cincinnati, OH: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-540/1-86-039. Available from: NTIS, Springfield, VA;
- U. S. Environmental Protection Agency. (1984) Health effects assessment for pentachlorophenol. Cincinnati, OH: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-540/1-86-043. Available from: NTIS, Springfield, VA;
- U. S. Environmental Protection Agency. (1984) Health effects assessment for 1,2-dichloroethane. Cincinnati, OH: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-540/1-86-002. Available from: NTIS, Springfield, VA;
- U. S. Environmental Protection Agency. (1984) Health effects assessment for 1,1-dichloroethane. Cincinnati, OH: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-540/1-86-027. Available from: NTIS, Springfield, VA;

- U. S. Environmental Protection Agency. (1984) Health effects assessment for benzene. Cincinnati, OH: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-540/1-86-037.
- U. S. Environmental Protection Agency. (1985) Radionuclides: background information document--standard for radon-222 emissions from underground uranium mines. Washington, DC: Office of Radiation Programs; EPA report no. EPA-520/1-85-010.
- U. S. Environmental Protection Agency. (1985) Draft for the drinking water criteria document on radon. Notes. Washington, DC: U. S. Environmental Protection Agency, Office of Drinking Water.
- U. S. Environmental Protection Agency. (1985) Health assessment document for dichloromethane (methylene chloride). Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-82-004F. Available from: Springfield, VA; PB85-191559/AS.
- U. S. Environmental Protection Agency. (1985) Addendum to the health assessment document for dichloromethane (methylene chloride): updated carcinogenicity assessment of dichloromethane (methylene chloride). Washington, DC: Office of Health and Environmental Assessment; EPA report no. EPA-600/8-82-004FF.
- U. S. Environmental Protection Agency. (1985) Health risks due to radon in structures: a strategy management plan for assessment and mitigation. September; unpublished.
- U. S. Environmental Protection Agency. (1985) Technologies and costs for the removal of radon from potable water supplies, second draft. Science and Technology Branch, Criteria and Standards Division, Office of Drinking Water. September [unpublished].
- U. S. Environmental Protection Agency. (1985) Asbestos waste management guidance: generation transport and disposal. Washington, DC: Office of Solid Waste; May.
- U. S. Environmental Protection Agency. (1985) Health assessment document for tetrachloroethylene (perchloroethylene). Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-82-005F.
- U. S. Environmental Protection Agency. (1985) Health assessment document for trichloroethylene. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-82-006F.
- U. S. Environmental Protection Agency. (1985) Human exposure assessment location (HEAL) project: United States component. Presented at: WHO-hosted HEAL planning conference; April- May;

- U. S. Environmental Protection Agency. (1986) Second addendum to air quality criteria for particulate matter and sulfur oxides (1982): assessment of newly available health effects information. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-86-020A.
- U. S. Environmental Protection Agency. (1986) Air quality criteria for lead: volume II of four. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; EPA report no. EPA-600/8-83/028bF.
- U. S. Environmental Protection Agency. (1986) Summary review of health effects associated with maleic anhydride: health issue assessment. Research Triangle Park, NC: Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office; ECAO-R-094A.
- U. S. Environmental Protection Agency. (1986) Draft tier I documents: summary review of health effects associated with exposure to styrene vapor.
- U. S. Environmental Protection Agency. (1986) Radon reduction techniques for detached houses: technical guidance. Washington, DC: Office of Research and Development; EPA report no. EPA-625/5-86-019.
- U. S. Environmental Protection Agency. (1986) Radon reduction methods: a homeowner's guide. OPA-86-005.
- U. S. Environmental Protection Agency. (1986) EPA's Engineering research program in indoor air quality: source characterization and IAQ control. Air and Energy Engineering Research Laboratory; draft AEERL internal report.
- U. S. Environmental Protection Agency. (1986) Summary of workshop: characterization of contaminant emissions for indoor sources. Chapel Hill, NC: J. B. Pierce Foundation Laboratory; May 1985; Chapel Hill, NC. in press.
- U. S. Environmental Protection Agency. (1986) Interim indoor radon and radon decay products measurement protocols. Office of Radiation Programs; EPA report no. EPA-520/1-86-04.
- U. S. Environmental Protection Agency. (1986) Methods for the determination of organic compounds in finished drinking water and raw source water. Cincinnati, OH: Environmental Monitoring and Support Laboratory.
- U. S. Environmental Protection Agency. (1987) Revised draft report: indoor air quality scoping report (appendices). Washington, DC: Office of Air and Radiation Programs; EPA contract nos. 68-01-7053 (task 64) and 68-02-4454 (task 23).
- Ubisch, H. (1985) Ventilation of sleeping rooms examined with flames which simulate human carbon dioxide emission and heat dissipation. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Copenhagen, Denmark: VVS Kongres; pp. 259-264.

Ulbak, K.; Jonassen, N.; Baekmark, K. (1984) Radon exhalation from samples of concrete with different porosities and fly ash additives. Radiat. Prot. Dosim. 7: 45-48.

Ulbak, K.; Klinder, O. (1984) Radium and radon in Danish drinking water. Radiat. Prot. Dosim. 7: 87-89.

Ulbrich, G. (1982) Einfluss von Feuerstaetten auf die Beschaffenheit der Innenraumluft [The impact of combustion devices on indoor air quality]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 179-190. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

Ulrich, D.; Nagel, R.; Seifert, B. (1982) Einfluss von Lackanstrichen auf die Innenraumluftqualitaet am Beispiel von Heizkoerperlacken [The influence of lacquer coatings on indoor air quality: radiator lacquers as an example]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 283-298. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).

United Nations Scientific Committee on the Effects of Atomic Radiation. (1982) Ionizing radiation: sources and biological effects. 1982 report to the General Assembly, with annexes. New York, NY: United Nations.

Upham, J. B.; Haynie, F. H.; Spence, J. W. (1976) Fading of selected drapery fabrics by air pollutants. J. Air Pollut. Control Assoc. 26: 790-792.

Uyttenhove, J.; Maryns, R.; Janssens, A.; Vanmarcke, H.; Jacobs, R. (1984) Survey on natural radiation in houses in Belgium. Radiat. Prot. Dosim. 7: 275-278.

van der Kolk, J. (1984) Wood preservatives and indoor air, experiences in the Netherlands. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 251-256.

van der Kooi, J.; Foerch, E. (1985) Calculation of the cooling load by means of a "more-air-points-model." In: Kanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 395-401.

van der Lende, R.; Kok, T.; Peset, R.; Quanjer, Ph. H.; Schouten, J. P.; Orie, N. G. M. (1981) Longterm exposure to air pollution and decline in VC and FEV. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 23S-25S.

- van Houdt, J. J.; Boleij, J. S. M. (1984) Mutagenic activity of indoor airborne particles compared to outdoors. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 2, radon, passive smoking, particulates and housing epidemiology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 169-176.
- van Houdt, J. J.; Jongen, W. M. F.; Alink, G. M.; Boleij, J. S. M. (1984) Mutagenic activity of airborne particles inside and outside homes. Environ. Mutagen. 6: 861-869.
- Vanderstraeten, P.; Muylle, E.; Verduyn, G. (1984) Indoor air quality in a large hospital building. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 335-342. Available from: NTIS, Springfield, VA; PB85-104214.
- Vanmarcke, H.; Janssens, A.; Raes, F.; Poffijn, A.; Berkvens, P.; Van Dingenen, R. (1986) On the behaviour of radon daughters in the domestic environment and its effect on the effective dose equivalent. In: Hopke, P. K., ed. Radon and its decay products: occurrence, properties, and health effects; April; New York, NY. Washington, DC: American Chemical Society; in press. (ACS symposium series).
- Vaughan, W. M.; Deuble, J. L., Jr. (1986) IAQ studies: what's involved and what it costs. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 292-305.
- Vedal, S.; Schenker, M. B.; Samet, J. M.; Speizer, F. E. (1984) Risk factors for childhood respiratory disease: analysis of pulmonary function. Am. Rev. Respir. Dis. 130: 187-192.
- Venuti, G. C.; Colilli, S.; Grisanti, A.; Grisanti, G.; Monteleone, G.; Risica, S.; Gobbi, G. (1984) Indoor exposure in a region of central Italy. Radiat. Prot. Dosim. 7: 271-274.
- Verein Deutscher Ingenieure. (1984) Maximale Immissions-Werte zum Schutze des Menschen: maximale Immissions-Konzentrationen fuer Schwefeldioxid=Maximum immissions values referring to human health: maximum immission concentrations for sulfur dioxide. In: VDI-Handbuch Reinhaltung der Luft, v. 1. Duesseldorf, Federal Republic of Germany: VDI-Verlag GmbH; VDI 2310; part 11.
- Verein Deutscher Ingenieure. (1985) Maximale Immisions-Werte zum Schutze des Menschen: maximale Immisons-konzentrationen fuer Stickstoffdioxid=Maximum immission values referring to human health: maximum immission concentrations for nitrogen dioxide. In: VDI-Handbuch Reinhaltung der Luft, v. 1. Duesseldorf, Federal Republic of Germany; VDI-Verlag GmbH; VDI 2310.

Verein Deutscher Ingenieure. (1986) Zielsetzung und Bedeutung der Richtlinien: Maximale Immissions-Werte [Aims and relevance of guidelines: maximum immission values]. In: VDI-Handbuch Reinhaltung der Luft, v. 1. Duesseldorf, Federal Republic of Germany: VDI-Verlag GmbH; VDI 2310; part 1.

Vivyurka, A. (1979) Assessment of subfloor ventilation system. Presented at: 2nd workshop on radon and radon in urban communities; March; Bancroft, ON, Canada.

Vo-Dinh, T. (1984) A new approach for screening polynuclear aromatic pollutants in indoor air. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 325-330. Available from: NTIS, Springfield, VA; PB85-104214.

Vold, E. (1984) Ingestion pathway factor in dose assessment for annual airborne releases of radioactivity. *Health Phys.* 47: 429-441.

Volent, P.; Baer, N. S. (1985) Volatile amines used as corrosion inhibitors in museum humidification systems. *Int. J. Museum Manage. Curatorship* 4: 359-364.

von Lindern, I. H.; von Braun, M. C. (1986) The use of a geographic information system in assessing soils contamination in the Bunker Hill site superfund project.

Vu Duc, T.; Favez, C. M. P. (1981) Characteristics of motor exhausts in an underground car park: mass size distribution and concentration levels of particles. *J. Environ. Sci. Health* A16: 647-660.

Wadach, J. B.; Hess, C. T. (1985) Radon-222 concentration measurements in soil using liquid scintillation and track etch. *Health Phys.* 48: 805-808.

Wadden, R. A.; Scheff, P. A. (1983) Indoor sources. In: Indoor air pollution: characterization, prediction, and control. New York, NY: John Wiley & Sons; pp. 52-78. (Metcalf, R. L.; Stumm, W., eds. Environmental science and technology: a Wiley-Interscience series of texts and monographs).

Wadden, R. A.; Scheff, P. A. (1983) Health effects criteria. In: Indoor air pollution: characterization, prediction, and control. New York, NY: John Wiley & Sons; pp. 13-45. (Metcalf, R. L.; Stumm, W., eds. Environmental science and technology: a Wiley-Interscience series of texts and monographs).

Wade, W. A., III; Cote, W. A.; Yocom, J. E. (1975) A study of indoor air quality. *J. Air Pollut. Control Assoc.* 25: 933-939.

Wald, N. J.; Boreham, J.; Bailey, A.; Ritchie, C.; Haddow, J. E.; Knight, G. (1984) Urinary cotinine as marker of breathing other people's tobacco smoke [letter]. *Lancet* (8370): 230-231.

Wald, N.; Ritchie, C. (1984) Validation of studies on lung cancer in non-smokers married to smokers [letter]. *Lancet* (8385): 1067.

- Walker, M. V.; Weschler, C. J. (1980) Water-soluble components of size-fractionated aerosols collected after hours in a modern office building. *Environ. Sci. Technol.* 14: 594-597.
- Walkinshaw, D. S. (1986) Indoor air quality in cold climates: hazards and abatement measures. Summary of an APCA international specialty conference. *J. Air Pollut. Control Assoc.* 36: 235-241.
- Wallace, L. A. (1981) Recent progress in developing and using personal monitors to measure human exposure to air pollutants. *Environ. Int.* 5: 73-75.
- Wallace, L. A. (1983) Carbon monoxide in air and breath of employees in an underground office. *J. Air Pollut. Control Assoc.* 33: 678-682.
- Wallace, L. A. (1986) An overview of the Total Exposure Assessment Methodology (TEAM) Study, v. I. Washington, DC: U. S. Environmental Protection Agency; February; (in press).
- Wallace, L. A. (1986) Personal exposures, indoor and outdoor air concentrations, and exhaled breath concentrations of selected volatile organic compounds measured for 600 residents of New Jersey, North Dakota, North Carolina, and California. *Toxicol. Environ. Chem.* 12: 215-236.
- Wallace, L. A.; Pellizzari, E.; Hartwell, T.; Rosenzweig, M.; Erickson, M.; Sparacino, C.; Zelon, H. (1984) Personal exposure to volatile organic compounds: I. Direct measurements in breathing-zone air, drinking water, food, and exhaled breath. *Environ. Res.* 35: 293-319.
- Wallace, L. A.; Pellizzari, E. D.; Hartwell, T. D.; Zelon, H. S.; Sparacino, C. M.; Whitmore, R. (1984) Analyses of exhaled breath of 355 urban residents for volatile organic compounds. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 15-20. Available from: NTIS, Springfield, VA; PB85-104214.
- Wallace, L. A.; Pellizzari, E. D.; Hartwell, T. D.; Sparacino, C. M.; Sheldon, L. S.; Zelon, H. S. (1984) Personal exposures, outdoor concentrations, and breath levels of toxic air pollutants measured for 425 persons in urban, suburban, and rural areas. Presented at: 77th annual meeting of the Air Pollution Control Association; June; San Francisco, CA. Pittsburgh, PA: Air Pollution Control Association; paper no. 84-1.8.
- Wallace, L. A.; Pellizzari, E. D.; Hartwell, T. D.; Sparacino, C. M.; Sheldon, L. S.; Zelon, H. S. (1984) Personal exposures, indoor-outdoor relationships, and breath levels of toxic air pollutants measured for 355 persons in New Jersey. *Atmos. Environ.*: in press.

Wallace, L. A.; Pellizzari, E. D.; Hartwell, T. D.; Sparacino, C. M.; Sheldon, L. S.; Zelon, H. S. (1985) Results from the first three seasons of the team study: personal exposures, indoor-outdoor relationships, and breath levels of toxic air pollutants measured for 355 persons in New Jersey. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-31.6.

Wallace, L. A.; Pellizzari, E. D.; Hartwell, T. D.; Whitmore, R.; Sparacino, C. M.; Zelon, H. S. (1986) Total exposure assessment methodology (TEAM) study: personal exposures, indoor-outdoor relationships, and breath levels of volatile organic compounds in New Jersey. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 369-387.

Wallace, L. A.; Pellizzari, E.; Leaderer, B.; Zelon, H.; Sheldon, L. (1987) Emissions of volatile organic compounds from building materials and consumer products. In: Symposium on the characterization of contaminant emissions from indoor sources; Chapel Hill, NC. Atmos. Environ. 21: 385-393.

Wallace, L. A.; Ziegenfus, R. C. (1985) Comparison of carboxyhemoglobin concentrations in adult nonsmokers with ambient carbon monoxide levels. J. Air Pollut. Control Assoc. 35: 944-949.

Wallace, L. A.; Zweidinger, R.; Erickson, M.; Cooper, S.; Whitaker, D.; Pellizzari, E. D. (1982) Monitoring individual exposure. Measurements of volatile organic compounds in breathing-zone air, drinking water, and exhaled breath. Environ. Int. 8: 269-282.

Waller, R. A. (1984) Case study of a sick building. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 3, sensory and hyperreactivity reactions to sick buildings; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 349-353.

Walling, J. F. (1984) The utility of distributed air volume sets when sampling ambient air using solid adsorbents. Atmos. Environ. 18: 855-859.

Walling, J. F.; Bumgarner, J. E.; Driscoll, D. J.; Morris, C. M.; Riley, A. E.; Wright, L. H. (1986) Apparent reaction products desorbed from tenax used to sample ambient air. Atmos. Environ. 20: 51-57.

Wallingford, K. M.; Carpenter, J. (1986) Field experience overview: investigating sources of indoor air quality problems in office buildings. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 448-453.

Walrath, J. (1983) Mortality among embalmers. Am. J. Epidemiol. 118: 432.

- Walrath, J.; Fraumeni, J. F., Jr. (1983) Mortality patterns among embalmers. Int. J. Cancer 31: 407-411.
- Walsh, P. J. (1979) Dose conversion factors for radon daughters. Health Phys. 36: 601-609.
- Walsh, P. J.; Dudney, C. S.; Copenhaver, E. D., eds. (1984) Indoor air quality. Boca Raton, FL: CRC Press, Inc.
- Walsh, P. J.; Hamrick, P. E. (1977) Radioactive materials - determinants of dose to the respiratory tract. In: Lee, D. H. K., ed. Handbook of physiology, section 9: reactions to environmental agents; pp. 233-242.
- Walsh, P. J.; Lowder, W. M. (1985) Radon. In: Walsh, P. J.; Dudney, C. S.; Copenhaver, E. D., eds. Indoor air quality. Boca Raton, FL: CRC Press, Inc.; pp. 143-158.
- Walton, G. N. (1983) A computer algorithm for estimating infiltration and inter-room air flows. Washington, DC: National Bureau of Standards and Department of Building Energy Sciences Branch, Office of Building Energy Research and Development; NBSIR report no. NBSIR 83-2635.
- Wang, J.; Cao, S.; Li, Z.; Zhong, Y.; Li, S. (1985) Human exposure to carbon monoxide and suspended particulate matter in Beijing, People's Republic of China. Geneva, Switzerland: World Health Organization; PEP/85.11.
- Wang, T. C. (1975) A study of bioeffluents in a college classroom. ASHRAE Trans. 81 (Part 1): 32-44.
- Wanner, H. U. (1980) Luftqualitaet in Wohn- und Arbeitsraeumen [Air quality in living and working places]. Soz. Praeventivmed. 25: 328-332.
- Wanner, H. U. (1982) Belastung der Raumluft durch den Menschen (Kohlendioxid, Gerueche) [Indoor air pollution produced by man (carbon dioxide, odours)]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 11-16. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Wanner, H. U.; Kuhn, M. (1986) Indoor air pollution by building materials. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 311-315.
- Wanner, H.-U.; Kuhn, M. (1984) Indoor air pollution by building materials. Zurich, Switzerland: Department of Hygiene and Applied Physiology; pp. 35-40.
- Ware, J. H.; Dockery, D. W.; Spiro, A., III; Speizer, F. E.; Ferris, B. G., Jr. (1984) Passive smoking, gas cooking, and respiratory health of children living in six cities. Am. Rev. Respir. Dis. 129: 366-374.

- Ware, J. H.; Ferris, B. G., Jr.; Dockery, D. W.; Spengler, J. D.; Stram, D. O.; Speizer, F. E. (1985) Effects of ambient sulfur oxides and suspended particles on respiratory health of preadolescent children. National Institute of Environmental Health Sciences, The Channing Laboratory; in press. Am. Rev. Respir. Dis.
- Ware, J. H.; Thibodeau, L. A.; Speizer, F. E.; Colome, St.; Ferris, B. G., Jr. (1981) Assessment of the health effects of atmospheric sulfur oxides and particulate matter: evidence from observational studies. EHP Environ. Health Perspect. 41: 255-276.
- Warren, H. (n.d.) Assessment of human exposure to indoor air pollutants from gas ranges. Need publ. details.
- Warren, P. R. (1986) Ventilation criteria: biological demands and formulation of standards. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 67-70.
- Washington, R. A.; Courneya, W. J. (1983) The measurement of low concentrations of radon in air. Health Phys. 45: 559-561.
- Watnick, S.; Latner, N.; Graveson, R. T. (1986) A  $^{222}\text{Rn}$  monitor using a spectroscopy. Health Phys. 50: 645-646.
- Watson, D. A.; Walsh, M. L. (1980) The perception of harm from radiation exposure. Health Phys. 38: 845-846.
- Watson, J. G.; Chow, J. C. (1986) The potential of receptor models to apportion indoor air pollution to sources. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-7.6.
- Watson, W. D.; Jaksch, J. A. (1982) Air pollution: household soiling and consumer welfare losses. J. Environ. Econ. Manage. 9: 248-262.
- Weber, A. (1982) Passivrauchen [Passive smoking]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 17-24. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Weber, A. (1984) Annoyance and irritation by passive smoking. Prev. Med. 13: 618-625.
- Weber, A.; Fischer, T. (1980) Passive smoking at work. Int. Arch. Occup. Environ. Health 47: 209-221.
- Weber, A.; Fischer, T.; Grandjean, E. (1979) Passive smoking in experimental and field conditions. Environ. Res. 20: 205-216.
- Weber-Tschopp, A.; Fischer, T.; Grandjean, E. (1976) Objektive und subjektive physiologische Wirkungen des Passivrauchens [Physiological and psychological effects of passive smoking]. Int. Arch. Occup. Environ. Health 37: 277-288.

- Weber-Tschopp, A.; Fischer, T.; Grandjean, E. (1977) Reizwirkungen des Formaldehyds (HCHO) auf den Menschen [Irritating effects of formaldehyde on men]. Int. Arch. Occup. Environ. Health 39: 207-218.
- Wegner, J. (1982) Bauhygienische Bedeutung von Geraeten zur Raumluftbehandlung [Hygienic relevance of devices for indoor air treatment]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 331-340. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Wegner, J.; Schlueter, G. (1982) Die Bedeutung des Luftwechsels fuer die Luftqualitaet von Wohnraeumen [The significance of air exchange for air quality in homes]. In: Aurand, K.; Seifert, B.; Wegner, J., eds. Luftqualitaet in Innenraeumen [Indoor air quality]. Stuttgart, Federal Republic of Germany: Gustav Fischer Verlag; pp. 31-20. (Schriftenreihe des Vereins fuer Wasser-, Boden- und Lufthygiene no. 53).
- Weill, H. (1981) Occupational lung diseases. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 54S-57S.
- Weill, H. (1981) Risk assessment in volcano ash exposure. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 87S-88S.
- Weinberg, R. A. (1985) The action of oncogenes in the cytoplasm and nucleus. Science (Washington, DC) 230: 770-776.
- Weiss, S. T.; Tager, I. B.; Speizer, F. E.; Rosner, B. (1980) Persistent wheeze: its relation to respiratory illness, cigarette smoking, and level of pulmonary function in a population sample of children. Am. Rev. Respir. Dis. 122: 697-707.
- Weiss, S. T.; Tager, I. B.; Schenker, M.; Speizer, F. E. (1983) The health effects of involuntary smoking. Am. Rev. Respir. Dis. 128: 933-942.
- Weiss, S. T.; Tager, I. B.; Monoz, A.; Speizer, F. E. (1985) The relationship of respiratory infections in early childhood to the occurrence of increased levels of bronchial responsiveness and atopy. Am. Rev. Respir. Dis. 13: 573-578.
- Wellenmann, U. (1985) Thermische Behaglichkeitsregelung [Thermal comfort control]. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 183-188.
- Wellford, B. W. (1986) Mitigation of indoor radon using balanced mechanical ventilation systems. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; p. 602.

- Wells, A. J. (1986) Passive smoking mortality: a review and preliminary assessment. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-80.6.
- Wendel, G. J.; Stedman, D. H.; Cantrell, C. A.; Damrauer, L. (1983) Luminol-based nitrogen dioxide detector. *Anal. Chem.* 55: 937-940.
- Wertheimer, N.; Leeper, E. (1979) Electrical wiring configuration and childhood cancer. *Am. J. Epidemiol.* 109: 273-284.
- Wertheimer, N.; Leeper, E. (1986) Possible effects of electric blankets and heated waterbeds on fetal development. *Bioelectromagnetics* 7: 13-22.
- Weschler, C. J. (1986) Office energy conservation: the effect on airborne particles and their chemical constituents. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; p. 364.
- Weschler, C. J.; Fong, K. L. (1986) Characterization of organic species associated with indoor aerosol particles. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. *Indoor air quality: papers from the third international conference on indoor air quality and climate*; August 1984; Stockholm, Sweden. *Environ. Int.* 12: 93-97.
- Weschler, C. J.; Kelty, S. P.; Lingousky, J. E. (1983) The effect of building fan operation on indoor-outdoor dust relationships. *J. Air Pollut. Control Assoc.* 33: 624-629.
- Weschler, C. J.; Shields, H. C. (1986) The accumulation of "additives" in office air. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-52-2.
- White, J. R.; Froeb, H. F. (1980) Small-airways dysfunction in non-smokers chronically exposed to tobacco smoke. *New Engl. J. Med.* 302: 720-723.
- White, R. H. (1986) Public education programs as a non-regulatory approach to controlling indoor air pollution: the American Lung Association experience. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-35.6.
- Wicke, A. (1984) Exposure of the population to radon daughters - problems associated with the assessment of the annual dose. *Radiat. Prot. Dosim.* 7: 337-340.
- Wiedemann, H. P.; Mahler, D. A.; Loke, J.; Virgulto, J. A.; Snyder, P.; Matthay, R. A. (1986) Acute effects of passive smoking on lung function and airway reactivity in asthmatic subjects. *Chest* 89: 180-185.

- Wilkening, M. (1977) Measurement of radon flux by the accumulation method. In: Howard, E. D., ed. Program report: workshop on methods for radiation in and around uranium mills; May; Albuquerque, NM. Washington, DC: Atomic Industrial Forum, Inc.; pp. 131-138.
- Wilkening, M. (1986) Effect of radon on some electrical properties of indoor air. In: Hopke, P. K., ed. Radon and its decay products: occurrence, properties, and health effects; April; New York, NY. Washington, DC: American Chemical Society; in press. (ACS symposium series).
- Wilkening, M. H.; Schery, S. D. (1984) Source characterization and transport processes affecting levels of radon and its decay products in an indoor environment. U. S. Department of Energy; final technical report DOE/ER/60095--T3. Available from: NTIS, Springfield, VA; DE85-005421.
- Wilkening, M. H.; Watkins, D. E. (1976) Air exchange and  $^{222}\text{Rn}$  concentrations in the Carlsbad Caverns. *Health Phys.* 31: 139-145.
- Wilkening, M.; Wicke, A. (1986) Seasonal variation of indoor Rn at a location in the southwestern United States. *Health Phys.* 51: 427-436.
- Williams, J. E.; Moser, S. A. (1987) Chronic murine pulmonary Blastomycosis induced by intratracheally inoculated blastomyces dermatitidis conidia. *Am. Rev. Respir. Dis.* 135: 17-25.
- Williamson, T. J.; Coldicutt, S. (1985) The assessment of thermal comfort in dwellings with evaporative cooling. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denamrk: VVS Kongres; pp. 127-132.
- Wilson, A. G.; Scheuneman, E.; Tremayne, M. (1986) House depressurization and flue gas spillage. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 417-429.
- Wilson, N. K.; Lewis, R. G.; Chuang, C. C.; Petersen, B. A.; Mack, G. A. (1985) Analytical and sampling methodology for characterization of polynuclear aromatic compounds in indoor air. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-30A.2.
- Winchester, J. W.; Nelson, J. W. (1979) Sources and transport of trace metals in urban aerosols. Research Triangle Park, NC: U. S. Environmental Protection Agency, Office of Research and Development; EPA report no. EPA-600/3-79-019.
- Windham, S. T.; Partridge, J.; Horton, T. (1976) Radiation dose estimates to phosphate industry personnel. Washington, DC: U. S. Environmental Protection Agency, Office of Radiation Programs; EPA report no. EPA-520/5-76-014.

- Windham, S. T.; Savage, E. D.; Phillips, C. R. (1978) The effects of home ventilation systems on indoor radon-radon daughter levels. Montgomery, AL: U. S. Environmental Protection Agency, Eastern Environmental Radiation Facility; EPA report no. EPA-520/5-77-011. Available from: NTIS, Springfield, VA; PB-291925.
- Winfield, M.; Lauderdale, J. F. (1985) Texas department of health indoor air quality program. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-46.5.
- Witek, T. J., Jr.; Schachter, E. N.; Tosun, T.; Leaderer, B. P.; Beck, G. J. (1986) Controlled human studies on the pulmonary effects of indoor air pollution: experiences with sulfur dioxide and formaldehyde. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 129-135.
- Wolff, G. T.; Klimisch, R. L. (1982) Particulate carbon: atmospheric life cycle. New York, NY: Plenum Press.
- Wolff, G. T.; Stroup, C. M.; Stroup, D. P. (1983) The coefficient of haze as a measure of particulate elemental carbon. J. Air Pollut. Control Assoc. 33: 746-750.
- Wolfs, F.; Hofstede, H.; de Meijer, R. J.; Put, L. W. (1984) Radon daughter concentrations in and around dwellings in the northern part of the Netherlands. Radiat. Prot. Dosim. 7: 287-290.
- Woods, J. E. (1983) Sources of indoor air contaminants. American Society of Heating, Refrigerating, and Air-conditioning Engineers, Inc.; AC-83-10.
- Woods, J. E.; Ficht, M. A.; Albrecht, R. J. (1985) Criteria and methods of controlling hospital indoor air quality. In: Fanger, P. O., ed. CLIMA 2000: proceedings of the world congress on heating, ventilating and air-conditioning, v. 4, indoor climate; August; Copenhagen, Denmark. Copenhagen, Denmark: VVS Kongres; pp. 291-299.
- Woods, J. E.; Janssen, J. E.; Krafthefer, B. C. (1986) Rationalization of equivalence between the ventilation rate and air quality procedures in ASHRAE standard 62. In: Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 181-191.
- Woods, J., Jr. (1986) Building performance assessment. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 71-73.
- Working Group on Air Quality Guidelines for Certain Malodorous Air Pollutants. (1985) Hydrogen sulfide. September-October 1985; Baden-Baden, West Germany; ICP/CEH 002/M72/6.

- Working Group on Indoor Air Quality Radon and Formaldehyde. (1985) Radon. August 1985; Dubrovnik, Yugoslavia.
- World Health Organization. (1979) Health aspects related to indoor air quality. Copenhagen, Denmark: World Health Organization, Regional Office for Europe; report no. WHO/EURO-0021.
- World Health Organization. (1983) Selected radionuclides. Geneva, Switzerland: World Health Organization. (Environmental health criteria 25).
- World Health Organization. (1983) Styrene. Geneva, Switzerland: World Health Organization (Environmental health criteria 26).
- World Health Organization. (1984) Tetrachloroethylene. Geneva, Switzerland: World Health Organization. (Environmental health criteria 31).
- World Health Organization. (1984) Chlordane. Geneva, Switzerland: World Health Organization (Environmental health criteria 34).
- World Health Organization. (1985) Air quality guidelines: indoor air pollutants. Geneva Switzerland: World Health Organization, Regional Office for Europe.
- World Health Organization. (1985) Organic solvents and the central nervous system. Copenhagen, Denmark: World Health Organization; doc. no. 5.
- World Health Organization. (1985) Trichloroethylene. Geneva, Switzerland: World Health Organization. (Environmental health criteria 50).
- World Health Organization. (1986) Indoor air quality research. Report of a WHO meeting; August 1984; Stockholm, Sweden. Copenhagen, Denmark: World Health Organization. (EURO reports and studies 103).
- World Health Organization. (1987) 1,2-dichloroethane. In: Air quality guidelines, volume I. World Health Organization; pp. 4-1 - 4-21.
- World Health Organization. (1987) Methylene chloride. In: Air quality guidelines, volume I. World Health Organization; pp. 6-1 - 6-18.
- World Health Organization. (1987) Air quality guidelines: general part. World Health Organization.
- World Health Organization. (1987) Tetrachloroethylene. In: Air quality guidelines, volume I. World Health Organization; pp. 9-1 - 9-18.
- World Health Organization. (1987) Styrene. In: Air quality guidelines, volume I. World Health Organization; pp. 8-1 - 8-18.
- World Health Organization. (1987) Carbon disulfide. In: Air quality guidelines, volume I. World Health Organization; pp. 3-1 - 3-19.
- World Health Organization. (1987) Acrylonitrile. In: Air quality guidelines, volume I. World Health Organization; pp. 1-1 - 1-23.

- World Health Organization. (1987) Benzene. In: Air quality guidelines, volume I. World Health Organization; pp. 2-1 - 2-27.
- World Health Organization. (1987) Formaldehyde. In: Air quality guidelines, volume I. World Health Organization; pp. 5-1 - 5-24.
- World Health Organization. (1987) Polynuclear aromatic hydrocarbons (PAH). In: Air quality guidelines, volume I. World Health Organization; pp. 7-1 - 7-22.
- World Health Organization. (1987) Trichloroethylene. In: Air quality guidelines, volume I. World Health Organization; pp. 10-1 - 10-20.
- World Health Organization. (1987) Toluene. In: Air quality guidelines, volume I. World Health Organization; pp. 11-1 - 11-19.
- World Health Organization. (1987) Vinyl chloride. In: Air quality guidelines, volume I. World Health Organization; pp. 12-1 - 12-27.
- World Health Organization. (1987) Asbestos. In: Air quality guidelines, volume II. World Health Organization; pp. 14-1 - 14-28.
- Wright, C. G.; Jackson, M. D. (1975) Insecticide residues in non-target areas of rooms after two months of crack and crevice application. Bull. Environ. Contam. Toxicol. 13: 123-128.
- Wright, C. G.; Leidy, R. B. (1980) Insecticide residues in the air of buildings and pest control vehicles. Bull. Environ. Contam. Toxicol. 24: 582-589.
- Wright, C. G.; Leidy, R. B.; Dupree, H. E., Jr. (1981) Insecticides in the ambient air of rooms following their application for control of pests. Bull. Environ. Contam. Toxicol. 26: 548-553.
- Wright, C. G.; Leidy, R. B. (1982) Chlordane and heptachlor in the ambient air of houses treated for termites. Bull. Environ. Contam. Toxicol. 28: 617-623.
- Wrixon, A. D.; Brown, L.; Cliff, K. D.; Driscoll, C. M. H.; Green, B. M. R.; Miles, J. C. H. (1984) Indoor radiation surveys in the UK. Radiat. Prot. Dosim. 7: 321-325.
- Wu, A. H.; Henderson, B. E.; Pike, M. C.; Yu, M. C. (1985) Smoking and other risk factors for lung cancer in women. JNCI J. Natl. Cancer Inst. 74: 747-751.
- Wynder, E. L.; Hoffmann, D. (1967) Tobacco and tobacco smoke: studies in experimental carcinogenesis. New York, NY: Academic Press.
- Wyon, D. P. (1986) Indoor thermal climate: requirements for comfort, health and performance. In: Berglund, B.; Berglund, U.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 6, evaluations and conclusions for health sciences and technology; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 61-65.

- Xi-Zhong, Z.; Yan-Jing, W.; Li-Da, X. (1986) The construction and performance of a hot-sphere-type anemometer. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 467-470.
- Xi-zhong, Z.; Yu-lian, C. (1986) The improvement of lithium chloride dew-point hygrometer for direct reading and controlling of relative humidity. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 471-474.
- Yaglou, C. P.; Wilson, U. (n.d.) Disinfection of air by air conditioning processes. Aerobiology; pp. 129-132.
- Yamanaka, S.; Hirose, H.; Takada, S. (1979) Nitrogen oxide emissions from domestic kerosene-fired and gas-fired appliances. Atmos. Environ. 13: 407-412.
- Yamanaka, S.; Maruoka, S. (1984) Short communication: mutagenicity of the extract recovered from airborne particles outside and inside a home with an unvented kerosene heater. Atmos. Environ. 18: 1485-1487.
- Yanagisawa, Y.; Hemphill, C. P.; Spengler, J. D.; Ryan, P. B. (1986) Wind effect on adsorption rate of NO<sub>2</sub> passive sampler, Palmes tube and filter badge. Presented at: 79th annual meeting of the Air Pollution Control Association; June; Minneapolis, MN. Pittsburgh, PA: Air Pollution Control Association; paper no. 86-37.7.
- Yanagisawa, Y.; Matsuki, H.; Osaka, F.; Kasuga, J.; Nishimura, H. (1984) Annual variation of personal exposure to nitrogen dioxide. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. Indoor air: proceedings of the 3rd international conference on indoor air quality and climate, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 33-42. Available from: NTIS, Springfield, VA; PB85-104214.
- Yanagisawa, Y.; Nishimura, H. (1982) A badge-type personal sampler for measurement of personal exposure to NO<sub>2</sub> and NO in ambient air. Environ. Int. 8: 235-242.
- Yates, A.; Gray, F. B.; Misiaszek, J. I.; Wolman, W. (1986) Air ions: past problems and future directions. In: Berglund, B.; Berglund, U.; Lindvall, T.; Spengler, J.; Sundell, J., eds. Indoor air quality: papers from the third international conference on indoor air quality and climate; August 1984; Stockholm, Sweden. Environ. Int. 12: 99-108.
- Yates, M. W. (1967) A preliminary study of carbon monoxide gas in the home. J. Environ. Health 29: 413-420.
- Yeates, D. B.; Goldin, A. S.; Moeller, D. W. (1972) Natural radiation in the urban environment. Nucl. Safety 13: 275-286.

Yefremov, G. G. (n.d.) Sostoyainie verkhnikh dykhatel'nykh putei u rabochikh formal'degidnykh proizvodstv (po dannym spetsia'nogo issledovaniya) [State of the upper respiratory tract in formaldehyde production workers (by the data of a special investigation)].

Yocom, J. E. (1982) Indoor-outdoor air quality relationships. A critical review. *J. Air Pollut. Control Assoc.* 32: 500-520.

Yocom, J. E.; Baer, N. S.; Robinson, E. (1986) Air pollution effects on physical and economic systems. In: Stern, ed. *Air pollution*, v. VI. Academic Press; pp. 145-246.

Yocom, J. E.; Clink, W. L.; Cote, W. A. (1971) Indoor/outdoor air quality relationships. *J. Air Pollut. Control Assoc.* 21: 251-259.

Yocom, J. E.; Cote, W. A.; Clink, W. L. (1970) Summary report - study of indoor outdoor air pollution relationships. Hartford, CT: TRC - The Research Corporation of New England; National Air Pollution Control Administration contract no. CPA-22-69-14.

Yocom, J. E.; Cote, W. A.; Clink, W. L. (1970) Indoor-outdoor air quality relationships. Presented at: 63rd annual meeting of the Air Pollution Control Association; June; St. Louis, MO. Pittsburgh, PA: Air Pollution Control Association; paper no. 70-119.

Yocom, J. E.; Hijazi, N. H.; Zoldak, J. J. (1984) Use of direct analysis mass spectrometry to solve indoor air quality problems. In: Berglund, B.; Lindvall, T.; Sundell, J., eds. *Indoor air: proceedings of the 3rd international conference on indoor air quality and climate*, v. 4, chemical characterization and personal exposure; August; Stockholm, Sweden. Stockholm, Sweden: Swedish Council for Building Research; pp. 245-250. Available from: NTIS, Springfield, VA; PB85-104214.

Yocom, J. E.; Stankunas, A. R.; Bradow, F. V. P. (1982) A review of air pollutant damage to materials. In: *Impact of air pollutants on materials - a report of panel 3: "environmental impact," of the NATO/CCMS pilot study on air pollution control strategies and impact modelling*. Brussels, Belgium: North Atlantic Treaty Organization Information Service; no. 139.

Yonehara, H.; Kimura, H.; Sakanoue, M.; Iwata, E.; Kobayashi, S.; Fujimoto, K.; Aoyama, T.; Sugahara, T. (n.d.) Improvement in the measurement of radon concentrations by bare track detector.

Young, R. A.; Ber, J. V.; Hollowell, C. D.; Pepper, J. H.; Turiel, I. (1981) Indoor air quality and energy efficient ventilation rates at a New York City elementary school. Berkeley, CA: Lawrence Berkeley Laboratory; report no. LBL-11828.

Yuill, G. K.; Lovatt, J. E. (1986) Prediction of pollutant concentration in houses. In: *Proceedings of the ASHRAE conference IAQ '86: managing indoor air for health and energy conservation*; April; Atlanta, GA. Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.; pp. 383-391.

- Yura, A.; Shimizu, T. (1982) [A study of indoor levels of nitrogen dioxide] Med. J. Kinki Univ. 7: 389-394.
- Zagraniski, R. T.; Roseman, K. D.; Altman, R. (1985) Public health policy on indoor air pollution in New Jersey. Presented at: 78th annual meeting of the Air Pollution Control Association; June; Detroit, MI. Pittsburgh, PA: Air Pollution Control Association; paper no. 85-46.4.
- Zamel, N.; Webster, P.; Lorimer, E.; Man, S.; Woolf, C. (1981) Environment vs genetics in determining bronchial susceptibility to cigarette smoking. In: Zwillich, C. W.; Cherniack, R. M., eds. The 23rd Aspen Lung conference: the environment and the lung; June 1980; Aspen, CO. Chest 80: 57S.
- Zander, M. (1983) Physical and chemical properties of polycyclic aromatic hydrocarbons. In: Bjorseth, A., ed. Handbook of polycyclic aromatic hydrocarbons. New York, NY: Marcel Dekker, Inc.; pp. 1-25.
- Zapalac, G. H. (1983) A time-dependent method for characterizing the diffusion of  $^{222}\text{Rn}$  in concrete. Health Phys. 45: 377-383.
- Zawacki, T. S., et al. (1984) Efficiency and emission improvements for gas-fired space heaters. Task 2. Unvented space heaters emissions reduction. Available from: NTIS, Springfield, VA; PB-237734.
- Zawacki, T. S., et al. (1985) Measurements of emissions rates from gas-fired space heaters. Institute of Gas Technology; interim report, contract no. 5082-241-0772.

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