

References

ACCP (American College of Chest Physicians) [1995]. ACCP consensus statement: assessment of asthma in the workplace. *Chest* 108:1084-1117.

ACGIH [1993]. 1993-1994 Threshold limit values for chemical substances and physical agents and biological exposure indices. Cincinnati, OH: American Conference of Governmental Industrial Hygienists.

ACGIH [1995]. Industrial ventilation: a manual of recommended practice. 22nd ed. Cincinnati, OH: American Conference of Governmental Industrial Hygienists, Committee on Industrial Ventilation.

ACGIH [1996]. 1996 TLVs[®] and BEIs[®]: threshold limit values for chemical substances and physical agents; biological exposure indices. Cincinnati, OH: American Conference of Governmental Industrial Hygienists.

ACGIH [1997a]. Annual reports of the committees on threshold limit values (TLVs[®]) and biological exposure indices (BEIs[®]). *ACGIH Today* 5:(1).

ACGIH [1997b]. 1997 TLVs[®] and BEIs[®]: threshold limit values for chemical substances and physical agents; biological exposure indices. Cincinnati, OH: American Conference of Governmental Industrial Hygienists.

Acquavella J, Leet T, Johnson G [1993]. Occupational experience and mortality among a cohort of metal components manufacturing workers. *Epidemiology* 4(5):428-434.

Ahrens W, Jöckel K-H, Patzak W, Elsner G [1991]. Alcohol, smoking, and occupational factors in cancer of the larynx: a case-control study. *Am J Ind Med* 20(4):477-493.

Alarie Y [1981a]. Dose-response analysis in animal studies: prediction of human responses. *Environ Health Perspect* 42:9-13.

Alarie Y [1981b]. Bioassay for evaluating the potency of airborne sensory irritants and predicting acceptable levels of exposure in man. *Fd Cosmet Toxicol* 19(5):623-626.

Almich BP, Carson GA [1974]. Some effects of charging on 10-mm nylon cyclone performance. *Am Ind Hyg Assoc J* 35(10):603-612.

Alomar A [1994]. Occupational skin disease from cutting fluids. *Dermatol Clin* 12(3):537-546.

Alomar A, Conde-Salazar L, Romaguera C [1985]. Occupational dermatoses from cutting oils. *Contact Dermatitis* 12(3):129-138.

Ameille J, Wild P, Choudat D, Ohl G, Vaucouleur JF, Chanut JC, et al. [1995]. Respiratory symptoms, ventilatory impairment, and bronchial reactivity in oil mist-exposed automobile workers. *Am J Ind Med* 27(2):247-256.

ANSI [1979]. American national standard: fundamentals governing the design and operation of local exhaust systems. New York, NY: American National Standards Institute, ANSI Z9.2-1979.

ANSI [1997]. American national standard technical report: mist control considerations for the design, installation, and use of machine tools using metalworking fluids. New York, NY: American National Standards Institute, B11 Ventilation Subcommittee, ANSI B11 TR 2-1997.

Aronson KJ, Siemiatycki J, Dewar R, Gérin M [1996]. Occupational risk factors for prostate cancer: results from a case-control study in Montréal, Québec, Canada. *Am J Epidemiol* 143(4):363-373.

Ashby J, Brady A, Elcombe CR, Elliott BM, Ishmael J, Odum J, et al. [1994]. Mechanistically-based human hazard assessment of peroxisome proliferator-induced hepatocarcinogenesis. *Hum Exp Toxicol* 13(Suppl 2):S1-S117.

Ashby JPA, Lefevre CR, Elcombe [1990]. Cell replication and unscheduled DNA synthesis (UDS) activity of low molecular weight chlorinated paraffins in the rat liver *in vivo*. *Mutagenesis* 5(5):515-518.

ASTM [1997a]. ASTM Standard E1497-94: safe use of water-miscible metalworking fluids. Philadelphia, PA: American Society for Testing and Materials.

ASTM [1997b]. ASTM Standard E1687-95: determining carcinogenic potential of virgin base oils in metalworking fluids. Philadelphia, PA: American Society for Testing and Materials.

ATS (American Thoracic Society) [1979]. ATS statement—snowbird workshop on standardization of spirometry. *Am Rev Respir Dis* 119(5):831-838.

ATS (American Thoracic Society) [1987]. Standardization of spirometry—1987 update. *Am Rev Respir Dis* 136(5):1285-1298.

ATS (American Thoracic Society) [1995]. Standardization of spirometry—1994 update. *Am J Respir Crit Care Med* 152(3):1107-1136.

Austin DF [1982]. Larynx. In: Schottenfeld D, Fraumeni JF Jr., eds. *Cancer epidemiology and prevention*. Philadelphia, PA: WB Saunders Co., pp. 554-563.

Ball A [1997]. A survey of metalworking fluid mist in manufacturing plants. *Lubrication Eng* 53(9):18-22.

Balmes JR [1991]. Surveillance for occupational asthma. *Occup Med: State of the Art Rev* 6(1):101-110.

Bardin JA, Eisen EA, Tolbert PE, Hallock MF, Hammond SK, Woskie SR, et al. [1997]. Mortality studies of machining fluid exposure in the automobile industry. V: a case-control study of pancreatic cancer. *Am J Ind Med* 32(3):240-247.

Baron PA [in press]. Personal aerosol sampler design: a review. *Appl Occup Environ Hyg*.

Baron PA, Willeke K [1986]. Respirable droplets from whirlpools: measurements of size distribution and estimation of disease potential. *Environ Res* 39(1):8-18.

Bartley DL, Chen C-C, Song R, Fischbach TJ [1994]. Respirable aerosol sampler performance testing. *Am Ind Hyg Assoc J* 55(11):1036-1046.

Becklake MR [1995]. Relationship of acute obstructive airway change to chronic (fixed) obstruction. *Thorax* 50(Suppl 1):S16-S21.

Becklake MR, Bourbeau J, Menzies R, Ernst P [1988]. The relationship between acute and chronic airway responses to occupational exposures. *Curr Pulmonol* 9:25-66.

Bennett EO [1972]. The biology of metalworking fluids. *J Am Soc Lub Eng* 28:237-247.

Bennett EO, Bennett DL [1987]. Minimizing human exposure to chemicals in metalworking fluids. *J Am Soc Lub Eng* 43(3):167-175.

Bernstein DI, Lummus ZL, Santilli G, Siskosky J, Bernstein IL [1995]. Machine operator's lung: a hypersensitivity pneumonitis disorder associated with exposure to metalworking fluid aerosols. *Chest* 108(3):636-641.

Bevington PA [1969]. *Data reduction and error analysis for the physical sciences*. New York, NY: McGraw Hill, p. 62.

Bhavanishankar TN, Ramesh HP, Shantha T [1988]. Dermal toxicity of *Fusarium* toxins in combinations. *Arch Toxicol* 61(3):241-244.

Bigda RJ and Associates [1980]. Review of all lubricants used in the U.S. and their re-refining potential. Tulsa, OK: U. S. Department of Energy, Division of Industrial Energy Conservation, Contract No. DE-AT19-78BC30227, pp. 63-70.

Blanc PD [1995]. Reflections of an armchair tribologist: the potential importance of "machine operator's lung." *Chest* 108(3):593-594.

Boyland E, Nice E, Williams K [1971]. The catalysis of nitrosation by thiocyanate from saliva. *Food Cosmet Toxicol* 9(5):639-643.

Brigham KL, Meyrick B [1986]. Endotoxin and lung injury. *Am Rev Respir Dis* 133(5):913-927.

Brown LM, Mason TJ, Pickle LW, Stewart PA, Buffler PA, Burau K, et al. [1988]. Occupational risk factors for laryngeal cancer on the Texas Gulf Coast. *Cancer Res* 48(7):1960-1964.

Budavari S, O'Neil MJ, Smith A, Heckelman PE, eds. [1989]. *The Merck index: an encyclopedia of chemicals, drugs, and biologicals*. 11th ed. Rahway, NJ: Merck and Company, Inc., p. 560.

Bulbulyan M, Zahm SH, Zaridze DG [1992]. Occupational cancer mortality among urban women in the former USSR. *Cancer Causes Control* 3:299-307.

Burke JM [1994]. Letter of November 10, 1994, from J.M. Burke, Manager of Environmental Engineering, Eaton Corporation, to Richard Niemeier, Director, Division of Standards Development and Technology Transfer, National Institute for Occupational Safety and Health, Centers for Disease Control, Public Health Service, U.S. Department of Health and Human Services.

Burrell R, Rylander R [1982]. Further studies on inhaled endotoxin-containing bacteria. *Environ Res* 27(2):325-326.

Burrell R, Ye S [1990]. Toxic risks from inhalation of bacterial endotoxin. *Br J Ind Med* 47(10):688-691.

Camarasa JG, Romaguera C, Serra-Baldrich E, Vilaplana J [1993]. Allergic contact dermatitis from Biobans in Spanish metalworkers. *Contact Dermatitis* 29(2):98.

Carpenter AV, Flanders WD, Frome EL, Tankersley WG, Fry SA [1988]. Chemical exposures and central nervous system cancers: a case-control study among workers at two nuclear facilities. *Am J Ind Med* 13(3):351-362.

Castellan RM, Olenchock SA, Kinsley KB, Hankinson JL [1987]. Inhaled endotoxin and decreased spirometric values. An exposure-response relation for cotton dust. *N Engl J Med* 317(10):605-610.

Cavagna G, Foa V, Vigliani EC [1969]. Effects in man and rabbits of inhalation of cotton dust or extracts and purified endotoxins. *Br J Ind Med* 26(4):314-321.

CFR. *Code of Federal regulations*. Washington, DC: U.S. Government Printing Office, Office of the Federal Register.

Challis BC, Edwards A, Hunma RR, Kyrtopoulos SA, Outram JR [1978]. Rapid formation of N-nitrosamines from nitrogen oxides under neutral and alkaline conditions. IARC Scientific Publication No. 19. Lyon, France: World Health Organization, International Agency for Research on Cancer, pp. 127-142.

Chan-Yeung M, Malo J-L [1993a]. Natural history of occupational asthma. In: Bernstein IL, Chan-Yeung M, Malo J-L, Bernstein DI, eds. *Asthma in the workplace*. New York, NY: Marcel Dekker, Inc., pp. 299-322.

Chan-Yeung M, Malo J-L [1993b]. Compendium I: table of the major inducers of occupational asthma. In: Bernstein IL, Chan-Yeung M, Malo J-L, Bernstein DI, eds. *Asthma in the workplace*. New York, NY: Marcel-Dekker, Inc., pp. 595-623.

Chan-Yeung M, Malo J-L [1995]. Occupational asthma. *New Engl J Med* 333(2): 107-112.

Chan-Yeung M, Lam S, Koener S [1982]. Clinical features and natural history of occupational asthma due to western red cedar (*Thuja plicata*). *Am J Med* 72(3):411-415.

Chen CC, Baron PA [1996]. Aspiration efficiency and inlet wall deposition in the fiber sampling cassette. *Am Ind Hyg Assoc J* 57:142-152.

Chen CC, Lai CY, Shih TS, Chen CY [1996]. Use of foams as size-selective devices: respirable and thoracic. Orlando, FL: American Association for Aerosol Research Fifteenth Annual Conference.

Chow W, McLaughlin JK, Malker SR, Weiner JA, Ericsson JLE, Stone BJ, et al. [1994]. Occupation and stomach cancer in a cohort of Swedish men. *Am J Ind Med* 26(4):511-520.

Christiani DC, Ye TT, Wegman DH, Eisen EA, Dai HL, Lu PL [1994]. Cotton dust exposure, across-shift drop in FEV₁, and five-year change in lung function. *Am J Respir Crit Care Med* 150(5):1250-1255.

Claude JC, Frentzel-Beyme RR, Kunze E [1988]. Occupation and risk of cancer of the lower urinary tract among men. A case-control study. *Int J Cancer* 41(3):371-379.

CMA [1996]. Comments of the Chemical Manufacturers Association, Alkanolamines Panel on criteria for a recommended standard: occupational exposures to metalworking fluids. June 6, 1996. Arlington, VA: Chemical Manufacturers Association. Unpublished.

Coenraads PJ, Nater JP, van der Lende R [1983]. Prevalence of eczema and other dermatoses of the hands and arms in the Netherlands. Association with age and occupation. *Clin Exp Dermatol* 8:495-503.

Coggon D, Pannett B, Acheson ED [1984]. Use of job-exposure matrix in an occupational analysis of lung and bladder cancers on the basis of death certificates. *J Natl Cancer Inst* 72(1):61-65.

Cohen H [1995]. A study of formaldehyde exposures from metalworking fluid operations using hexahydro-1,3,5-tris (2-hydroxyethyl)-s-triazine. In: Symposium proceedings: the industrial metalworking environment; assessment and control. Dearborn, MI, November 13-16, 1995. Detroit, MI: American Automobile Manufacturers Association, pp. 178-183.

Cookson JO [1971]. Machine tool design and use in relation to cutting fluids. *Ann Occup Hyg* 14(2):181-190.

CRC [1985]. CRC handbook of lubrication; theory and practice tribology. Booser ER, ed. Vols. 1-2. Boca Raton, FL: CRC Press, Inc.

Cruickshank CND, Gourevitch A [1952]. Skin cancer of the hand and forearm. *Br J Ind Med* 9(1):74-79.

Cruickshank CND, Squire JR [1950]. Skin cancer in the engineering industry from the use of mineral oil. *Br J Ind Med* 7(1):1-11.

Cullen MR, Balmes JR, Robins JM, Smith GJW [1981]. Lipoid pneumonia caused by oil mist exposure from a steel rolling tandem mill. *Am J Ind Med* 2(1):51-58.

Dahlquist I [1984]. Contact allergy to the cutting oil preservatives Bioban CS-1246 and P-1487. *Contact Dermatitis* 10(1):46.

Damstra RJ, Van Vloten WA, Van Ginkel CJW [1992]. Allergic contact dermatitis from the preservative 1,2-benzisothiazolin-3-one (1,2-BT; Proxel[®]): a case report, its prevalence in those occupationally at risk and in the general dermatological population, and its relationship to allergy to its analogue Kathon[®] CG. *Contact Dermatitis* 27:105-109.

Dang WT [1997]. The use of models for estimating exposure and risk of antimicrobials in metalworking fluids. Washington, DC: U.S. Environmental Protection Agency, Antimicrobial Division, Risk Assessment and Science Support Branch. Unpublished.

D'Arcy JB, Hands D, Hartwig JJ [1995]. Comparison of machining fluid aerosol concentrations from three different particulate sampling and analysis methods. In: Symposium proceedings: the industrial metalworking environment; assessment and control. Dearborn, MI, November 13-16, 1995. Detroit, MI: American Automobile Manufacturers Association, pp. 196-199.

Davies R, McWeeny DJ [1977]. Catalytic effect of nitrosophenols on N-nitrosamine formation. *Nature* 266(5603):657-658.

de Boer EM, Bruynzeel DP, van Ketel WG [1988]. Dyshidrotic eczema as an occupational dermatitis in metal workers. *Contact Dermatitis* 19(3):184-188.

de Boer EM, Van Ketel WG, Bruynzeel DP [1989a]. Dermatoses in metal workers. I. Irritant contact dermatitis. *Contact Dermatitis* 20(3):212-218.

de Boer EM, Van Ketel WG, Bruynzeel DP [1989b]. Dermatoses in metal workers. II. Allergic contact dermatitis. *Contact Dermatitis* 20(4):280-286.

Decoufle P [1978]. Further analysis of cancer mortality patterns among workers exposed to cutting oil mists. *J Natl Cancer Inst* 61(4):1025-1030.

Decoufle P, Stanislawczyk K, Houten L, Bross IDJ, Viadana E [1977]. A retrospective survey of cancer in relation to occupation. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, DHEW (NIOSH) Publication No. 77-178.

DeMaria TF, Burrell R [1980]. Effects of inhaled endotoxin-containing bacteria. *Environ Res* 23(1):87-97.

Desoille H, Philbert M, Ripault G, Cavigneaux A, Rossignoli H [1973]. The carcinogenic effect of mineral oils used in metallurgy. *Arch Mal Prof* 34(12):669-680.

DOL [1988]. Occupational injuries and illnesses in the United States by industry, 1986. Washington, DC: U.S. Department of Labor, Bureau of Labor Statistics. U.S. Government Printing Office, Bulletin 2308.

DOL [1989]. Occupational injuries and illnesses in the United States by industry, 1987. Washington, DC: U.S. Department of Labor, Bureau of Labor Statistics. U.S. Government Printing Office, Bulletin 2328.

DOL [1993]. Occupational injuries and illnesses in the United States by industry, 1991. Washington, DC: U.S. Department of Labor, Bureau of Labor Statistics. U.S. Government Printing Office, Bulletin 2424.

Dubrow R, Wegman DH [1984]. Occupational characteristics of cancer victims in Massachusetts 1971-1973. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 84-109.

Dunham LJ, Rabson AS, Stewart HL, Frank AS, Young JL [1968]. Rates, interview, and pathology study of cancer of the urinary bladder in New Orleans, Louisiana. *J Natl Cancer Inst* 41(3):683-709.

Eisen EA [1995]. Healthy worker effect in morbidity studies. *Med Lav* 86(2):125-138.

Eisen EA, Greaves IA [1995]. Asthma in automobile workers exposed to metal working fluids [Abstract]. *Am J Respir Crit Care Med*. 151(No. 4, Part 2):A421.

Eisen EA, Tolbert PE, Monson RR, Smith TJ [1992]. Mortality studies of machining fluid exposure in the automobile industry. I: a standardized mortality ratio analysis. *Am J Ind Med* 22(6):809-824.

Eisen EA, Tolbert PE, Hallock MF, Monson RR, Smith TJ, Woskie SR [1994]. Mortality studies of machining fluid exposure in the automobile industry. III: a case-control study of larynx cancer. *Am J Ind Med* 26(2):185-202.

Eisen EA, Holcroft CA, Greaves IA, Wegman DH, Woskie SR, Monson RR [1997]. A strategy to reduce healthy worker effect in a cross-sectional study of asthma and metal-working fluids. *Am J Ind Med* 31(6):671-677.

Ely TS, Pedley SF, Hearne FT, Stille WT [1970]. A study of mortality, symptoms, and respiratory function in humans occupationally exposed to oil mist. *J Occup Med* 12(7):253-261.

Fabriés J F [1992]. Health-related measurement of particulate fractions—respirable and thoracic dust. *Staub-Reinhalt Luft* 52:279-282.

Fan TY, Morrison J, Rounbehler DP, Ross R, Fine DH, Miles W, et al. [1977]. N-nitrosodiethanolamine in synthetic cutting fluids: A part-per-hundred impurity. *Science* 196(4285):70-71.

FDA [1988]. Human, biological, and animal drugs and medical devices; availability of guideline for use of the *Limulus Amebocyte Lysate (LAL)*. *Federal Register* 53(33):5044-5045.

54 Fed. Reg. 2445 [1989]. Occupational Safety and Health Administration: 29 CFR Part 1910; air contaminant; final rule.

54 Fed. Reg. 2651 [1989].

59 Fed Reg 61462.

Fife JG [1962]. Carcinoma of the skin in machine tool setters. *Br J Ind Med* 19(2):123-125.

Finnie JS [1960]. Oil folliculitis—a study of 200 men employed in an engineering factory. *Br J Ind Med* 17(2):130-140.

Fisher AA [1986]. Dermatitis due to cutting oils, solvents, petrolatum, and coal-tar products. In: Fisher AA, ed. *Contact Dermatitis* 3rd ed. Philadelphia, PA: Lea and Febiger, pp. 531-545.

Foe RB, Bigham RS Jr. [1954]. Lipid pneumonia following occupational exposure to oil spray. *JAMA* 155(1):33-34.

Fogelmark B, Goto H, Yuasa K, Marchat B, Rylander R [1992]. Acute pulmonary toxicity of inhaled β -1,3-glucan and endotoxin. *Agents Actions* 35:50-56.

Forbes JD, Markham TN [1967]. Cutting and grinding fluids in chronic pulmonary airway disease. *J Occup Med* 9(8):421-423.

Forsberg K, Mansdorf SZ [1993]. *Quick selection guide to chemical protective clothing*. 2nd ed. New York, NY: Van Nostrand Reinhold.

Frazier D [1982]. Cutting fluid applications for today's materials. In: *Improving production with coolants and lubricants*. Dearborn, MI: Society of Manufacturing Engineers, pp. 19-24.

Fuchs J, Burg B, Hengstler JG, Bolm-Audorff U, Oesch F [1995]. DNA damage in mononuclear blood cells of metal workers exposed to N-nitrosodiethanolamine in synthetic cutting fluids. *Mutation Res* 342(2):95-102.

Galanos C, Freudenberg MA, Lüderitz O, Rietschel ET, Westphal O [1979]. Chemical, physicochemical and biological properties of bacterial lipopolysaccharides. In: *Biomedical applications of the horseshoe crab (Limulidae)*. New York, NY: Alan R. Liss, Inc., pp. 321-332.

Gallagher RP, Threlfall WJ [1983]. Cancer mortality in metal workers. *Can Med Assoc J* 129:1191-1194.

Gannon PFG, Burge PS [1991]. A preliminary report of a surveillance scheme of occupational asthma in the West Midlands. *Br J Ind Med* 48(9):579-582.

Garry VF, Jacobs DR, Kreiger RA, Nelson RL, Loeppky R, Harkins ME [1986]. Integration of laboratory and epidemiologic studies to evaluate genotoxic exposure in tool and die workers. In: Sorsa M, Norppa H, eds. *Monitoring of occupational genotoxicants. Proceedings of a Satellite Symposium. Conference on Environmental Mutagens, Helsinki, Finland, June 30-July 2, 1985*. New York, NY: Alan R. Liss Inc., pp. 183-193.

Gerhardsson de Verdier M, Plato N, Steineck G, Peters JM [1992]. Occupational exposures and cancer of the colon and rectum. *Am J Ind Med* 22(3):291-303.

Gilman JPW, Vesselinovitch SD [1955]. Cutting oils and squamous-cell carcinoma. Part II: an experimental study of the carcinogenicity of two types of cutting oils. *Br J Ind Med* 12(3):244-248.

Glaser R, Shulman S [1996]. Considerations for sampling and analysis of metal-working fluids at the proposed NIOSH REL of 0.5 mg/m³. Presented at the American Industrial Hygiene Association Conference and Exposition. Washington, DC.

Glindmeyer HW, Lefante JJ, Jones RN, Rando RJ, Weill H [1994]. Cotton dust and across-shift change in FEV₁ as predictors of annual change in FEV₁. *Am J Respir Crit Care Med* 149(3):584-590.

Gonzalez CA, Lopez-Abente G, Errezola M, Escolar A, Riboli E, Izarzugaza I, et al. [1989]. Occupation and bladder cancer in Spain: a multi-centre case-control study. *Int J Epidemiol* 18(3):569-577.

Gordon T [1992]. Acute respiratory effects of endotoxin-contaminated fluid aerosols in guinea pigs. *Fund Appl Toxicol* 19(1):117-123.

Gordon T, Balmes J, Fine J, Sheppard D [1991]. Airway oedema and obstruction in guinea pigs exposed to inhaled endotoxin. *Br J Ind Med* 48(19):629-635.

Gordon T, Galdanes K, Brosseau L [1992]. Comparison of sampling media for endotoxin-contaminated aerosols. *Appl Occup Environ Hyg* 7(7):472-477.

Görner P, Fabriés JF, Wrobel R [1994]. Thoracic fraction measurement of cotton dust. *J Aerosol Sci* 25(Suppl 1):S487-S488.

Grattan CEH, English JSC, Foulds IS, Rycroft RJG [1989]. Cutting fluid dermatitis. *Contact Dermatitis* 20(5):372-376.

Greaves IA, Smith TJ, Woskie SR, Eisen EA, Shalat S, Kennedy SM [1993]. Lung function among auto workers in relation to aerosols of machining and grinding fluids [Abstract]. *Am Rev Respir Dis* 147 (No. 4, Pt. 2):A897.

Greaves IA, Eisen EA, Smith TJ, Pothier LJ, Kriebel D, Woskie SR, et al. [1995a]. Respiratory health of automobile workers and exposures to metal-working fluid aerosols. III. Lung spirometry. Boston, MA: Harvard School of Public Health, Occupational Health Program. Final Draft.

Greaves IA, Eisen EA, Smith TJ, Pothier LJ, Kriebel D, Woskie SR, et al. [1995b]. Respiratory health of automobile workers exposed to metal-working fluid aerosols. II. Respiratory symptoms. Boston, MA: Harvard School of Public Health, Occupational Health Program. Final Draft.

Greaves IA, Eisen EA, Smith TJ, Pothier LJ, Kriebel D, Woskie SR, et al. [1997]. Respiratory health of automobile workers exposed to metal-working fluid aerosols: respiratory symptoms. *Am J Ind Med* 32(5):450-459.

Greenland S, Salvan A, Wegman DH, Hallock MF, Smith TJ [1994]. A case-control study of cancer mortality at a transformer-assembly facility. *Int Arch Occup Environ Health* 66(1):49-54.

Gupta KP, Mehrotra NK [1989]. Tumor initiation in mouse skin by cutting oils. *Environ Res* 49(2):225-232.

Guralnick L [1963]. Mortality by occupation and cause of death. Washington, DC: U.S. Department of Health, Education, and Welfare; Public Health Service, Vital Statistics Special Reports 53(3).

Hagopian JH, Bastress EK [1976]. Recommended industrial ventilation guidelines. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, DHEW (NIOSH) Publication No. 76-162.

Haguenoer JM, Cordier S, Morel C, Lefebvre JL, Hemon D [1990]. Occupational risk factors for upper respiratory tract and upper digestive tract cancers. *Br J Ind Med* 47(6):380-383.

Hall NEL, Rosenman KD [1991]. Cancer by industry: analysis of a population-based cancer registry with an emphasis on blue-collar workers. *Am J Ind Med* 19(2):145-159.

Hallock MF, Smith TJ, Woskie SR, Hammond SK [1994]. Estimation of historical exposures to machining fluids in the automotive industry. *Am J Ind Med* 26(5):621-634.

Hands D, Wong B, Sheehan MJ [1995]. Comparison of metalworking fluid mist exposures at OEM-enclosed, retrofit-enclosed, and non-enclosed. In: Symposium proceedings: the industrial metal working environment; assessment and control. Dearborn, MI, November 13-16, 1995. Detroit, MI: American Automobile Manufacturers Association, pp. 395.

Hands D, Sheehan MJ, Wong B, Lick HB [1996]. Comparison of metalworking fluid mist exposures from machining with different levels of machine enclosure. *Am Ind Hyg Assoc J* 57(12):1173-1178.

Hankinson JL, Hodous TK [1983]. Short-term prospective spirometric study of new coal miners. Morgantown, WV: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, Clinical Investigations Branch. NTIS PB83-237-446.

Hauck BC, Grinshpun SA, Reponen A, Reponen T, Willeke K, Bornschein RL [1997]. Field testing of new aerosol sampling method with a porous curved surface as inlet. *Am Ind Hyg Assoc J* 58:713-719.

Hendy MS, Beattie BE, Burge PS [1985]. Occupational asthma due to an emulsified oil mist. *Br J Ind Med* 42(1):51-54.

Henry SA [1947]. Occupational cutaneous cancer attributable to certain chemicals in industry. *Br Med Bull* 4(1):389-401.

Herwaldt LA, Gorman GW, McGrath T, Toma S, Brake B, Hightower AW, et al. [1984]. A new *Legionella* species, *Legionella feeleii* species Nova, causes Pontiac fever in an automobile plant. *Ann Int Med* 100(3):333-338.

Hill EC [1983]. Microbial aspects of health hazards from water based metal working fluids. *Tribology Intl* 16(3):136-140.

Hill EC, Al-Zubaidy T [1979]. Some health aspects of infections in oil and emulsions. *Tribology Intl* 8:161-164.

Holdom RS [1976]. Microbial spoilages of engineering materials: Part 3. are infected oil emulsions a health hazard to workers and to the public? *Tribology Intl* 9:271-280.

Hoshino H, Tanooka H [1978]. Carcinogenicity of triethanolamine in mice and its mutagenicity after reaction with sodium nitrite in bacteria. *Cancer Res* 38(11):3918-3921.

Howe GR, Lindsay JP [1983]. A follow-up of a ten-percent sample of the Canadian labor force. I. cancer mortality in males, 1965-73. *J Natl Cancer Inst* 70(1):37-44.

Howe GR, Burch JD, Miller AB, Cook GM, Esteve J, Morrison B, et al. [1980]. Tobacco use, occupation, coffee, various nutrients, and bladder cancer. *JNCI* 64(4):701-713.

Howell J [1996]. Comments of John Howell at NIOSH Public Meeting, June 13, 1996. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health. Unpublished.

Hrubec Z, Blair AE, Rogot E, Vaught J [1992]. Mortality risks by occupation among U.S. veterans of known smoking status. Washington, DC: U.S. Government Printing Office, NIH Publication No. 92-3407.

HSE [1994]. Management of metalworking fluids. A guide to good practice for minimizing risks to health. Health and Safety Executive.

Hunting K, Nessel-Stephens L, Schiffman A [1995]. Summary of AOEC database case reports—the first three years: 1991–1993. Division of Occupational and Environmental Medicine, Washington, DC: George Washington University.

IARC [1978a]. N-nitrosodiethanolamine. In: IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans, some N-nitroso compounds. Vol. 17. Lyon, France: International Agency for Research on Cancer, pp. 77–82.

IARC [1978b]. N-nitrosomorpholine. In: IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans, some N-nitroso compounds, Vol.17. Lyon, France: International Agency for Research on Cancer, pp. 263–280.

IARC [1983]. IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans, polynuclear aromatic compounds. Part 1. Chemical, environmental and experimental data. Vol. 32. Lyon, France: International Agency for Research on Cancer.

IARC [1984]. Mineral oils. In: IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans. Part 2. Carbon blacks, mineral oils (lubricant base oils and derived products) and some nitroarenes. Vol. 33. Lyon, France: International Agency for Research on Cancer, pp. 87–168.

IARC [1987a]. Mineral oils: untreated and mildly-treated oils (Group 1). Highly-refined oils (Group 3). In: IARC monographs on the evaluation of carcinogenic risks to humans. Overall evaluation of carcinogenicity: An updating of IARC monographs. Vols. 1–42, Suppl 7. Lyon, France: International Agency for Research on Cancer, pp 252–259.

IARC [1987b]. N-nitrosodiethanolamine, N-nitrosodimethylene, N-nitrosomorpholine, N-nitrosodibutylamine. In: IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans, overall evaluation of carcinogenicity: An updating of IARC monographs. Vols. 1–42, Suppl 7. Lyon, France: International Agency for Research on Cancer, pp. 67–68.

ILMA [1990]. Memorandum of August 17, 1990, from the office of Collier, Shannon, and Scott, Attorneys-at-Law to Richard Niemeier, Director, Division of Standards, Development and Technology Transfer at the National Institute for Occupational Safety and Health.

ILMA [1993]. Independents' U.S. lube production up 9%. In: Compoundings. No. 66. Alexandria, VA: Independent Lubricant Manufacturers Association, pp. 1–3.

ILMA [1994]. Memorandum of March 21, 1994, from the Independent Lubricant Manufacturers Association to Lynn Blake-Hedges, Office of Pollution Prevention and Toxic Substances, U.S. Environmental Protection Agency.

ILMA [1996]. Comments submitted to NIOSH, May 31, 1996. Arlington, WV: Independent Lubricant Manufacturers Association.

IMIS [1995]. Integrated Management Information System. Washington, D.C.: U.S. Department of Labor, Occupational Safety and Health Administration. Unpublished database.

Imbus HR, Suh MW [1973]. Byssinosis: a study of 10,133 textile workers. *Arch Environ Health* 26(April):183-191.

ISO [1995]. Air quality-particle size fraction definitions for health-related sampling. Brussels, Belgium: International Standards Organization.

Jacobs RR [1989]. Airborne endotoxins: an association with occupational lung disease. *Appl Ind Hyg* 4(2):50-56.

Järholm B [1982]. Cutting oil mist and bronchitis. *Eur J Resp Dis* 118(Suppl):79-83.

Järholm B, Lavenius B [1987]. Mortality and cancer morbidity in workers exposed to cutting fluids. *Arch Environ Health* 42(6):361-366.

Järholm B, Easton D [1990]. Models for skin tumour risks in workers exposed to mineral oils. *Br J Cancer* 62(6):1039-1041.

Järholm B, Bake B, Lavenius B, Thiringer G, Volkmann R [1982]. Respiratory symptoms and lung function in oil mist-exposed workers. *J Occup Med* 24(6):473-479.

Järholm B, Fast K, Lavenius B, Tomsic P [1985]. Exposure to cutting oils and its relation to skin tumors and premalignant skin lesions on the hands and forearms. *Scand J Work Environ Health* 11(5):365-369.

Järholm B, Lavenius B, Sällsten G [1986]. Cancer morbidity in workers exposed to cutting fluids containing nitrites and amines. *Br J Ind Med* 43(8):563-565.

Jepsen JR, Stoyanov S, Unger M, Clausen J, Christensen H [1977]. Cutting fluids and their effects on the skin of mice. *Acta Pathol Microbiol Scand* 85(5):731-738.

Jöckel K-H, Ahrens W, Wichmann H-E, Becher H, Bolm-Audorff U, Jahn I, et al. [1992]. Occupational and environmental hazards associated with lung cancer. *Int J Epidemiol* 21(2):202-213.

Johnston WJ, White DW [1995]. Machine enclosure considerations for oil mist control. In: Symposium proceedings: the industrial metalworking environment; assessment and control. Dearborn, MI, November 13-16, 1995. Detroit, MI: American Automobile Manufacturers Association, pp. 278-283.

Joseph J [1991]. Keeping fluids clean in GM-Spring Hill. *Am Mach Oct*:42-45.

Kabir S, Rosenstreich DL, Mergenhagen SE [1978]. Bacterial endotoxins and cell membranes. In: Jeljaszewicz J, Wadström T, eds. *Bacterial toxins and cell membranes*. New York, NY: Academic Press, pp. 59-87.

Keefer LK, Roller PP [1973]. N-nitrosation by nitrite ion in neutral and basic medium. *Science* 181(4106):1245-1246.

Keefer LK, Goff U, Stevens J, Bennett EO [1990]. Persistence of N-nitrosodiethanolamine contamination in American metal-working lubricants. *Food Chem Toxicol* 28(7):531-534.

Kennedy ER, Fischbach TJ, Song R, Eller PM, Shulman SA [1995]. Guidelines for air sampling and analytical method development and evaluation. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication. No. 95-117.

Kennedy SM [1992]. Acquired airway hyperresponsiveness from nonimmunogenic irritant exposure. *Occup Med: State of the Art Rev* 7(2):287-300.

Kennedy SM, Greaves IA, Kriebel D, Eisen EA, Smith TJ, Woskie SR [1989]. Acute pulmonary responses among automobile workers exposed to aerosols of machining fluids. *Am J Ind Med* 15(6):627-641.

Kennedy SM, Chan-Yeung M, Marion S, Lea J, Teschke K [1995a]. Maintenance of stellite and tungsten carbide saw tips: respiratory health and exposure-response evaluations. *Occup Environ Med* 52(3):185-191.

Kennedy SM, Walton D, Chan-Yeung M [1995b]. Change in bronchial responsiveness in young workers: role of baseline characteristics and machining fluid exposure [Abstract]. *Am J Respir Crit Care Med* 151 (No.4, Part 2):A419.

Kennedy SM, Teschke K, Chan-Yeung M [1995c]. Two-year longitudinal changes in airway responsiveness among young machinist apprentices. In: *Symposium proceedings: the industrial metalworking environment; assessment and control*. Dearborn, MI, November 13-16, 1995. Detroit, MI: American Automobile Manufacturers Association, pp. 125-129.

Kenny LC, Gussmann RA [1997]. Characterization and modelling of a family of cyclone aerosol pre-separators. *J Aerosol Sci* 28(4):677-688.

Kenny LC, Aitken R, Chalmers C, Fabriés JF, Gonzalez-Fernandez E, Kromhaut H, et al. [1997]. A collaborative European study of personal inhalable aerosol sampler performance. *Ann Occup Health* 41(2):135-153.

Kenyon EM, Hammond SK, Shatkin J, Woskie SR, Hallock MF, Smith TJ [1993]. Ethanolamine exposures of workers using machining fluids in the automotive parts manufacturing industry. *Appl Occup Environ Hyg* 8(7):655-661.

Key MM, Ritter EJ, Arndt KA [1966]. Cutting and grinding fluids and their effects on the skin. *Am Ind Hyg Assoc J* 27:423-427.

Key MM, Taylor JS, Yang C [1983]. Grinding and cutting fluids. In: Parmeggiani L, ed. *Encyclopaedia of occupational health and safety*. 3rd rev. ed. Geneva, Switzerland: International Labour Office, pp. 979-981.

Kipling MD, Waldron HA [1976]. Polycyclic aromatic hydrocarbons in mineral oil, tar, and pitch, excluding petroleum pitch. *Prevent Med* 5(2):262-278.

Kleinbaum DG, Kupper LL, Morgenstern H [1982]. *Epidemiologic research: principals and quantitative methods*. New York NY: Van Nostrand Reinhold.

Kneller RW, Gao Y, McLaughlin JK, Gao R, Blot WJ, Liu M, et al. [1990]. Occupational risk factors for gastric cancer in Shanghai, China. *Am J Ind Med* 18(1):69-78.

Knight G, Kirk B [1982]. Comparison of respirable dust specifications with recent lung data. *Am Ind Hyg Assoc J* 43(8):575.

Konishi Y, Denda A, Uchida K, Emi Y, Ura H, Yokose Y, et al. [1992]. Chronic toxicity carcinogenicity studies of triethanolamine in B6C3F1 mice. *Fund Appl Toxicol* 18(1):25-29.

Kriebel D [1996]. Letter of May 29, 1996, from D. Kriebel, Associate Professor, Department of Work Environment, University of Massachusetts Lowell, to L.J. Fine, Director, Division of Surveillance, Hazard Evaluation, and Field Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Public Health Service, U.S. Department of Health and Human Services.

Kriebel D, Eberiel D, Eisen EA, Eraso RM, Kumar S, Sama S, et al. [1994]. Field investigations of the acute respiratory effects of machining fluids. Final report to the UAW-GM National Joint Committee on Safety and Health, June 1, 1994.

Kriebel D, Sama SR, Woskie S, Christiani DC, Eisen EA, Hammond K, et al. [1995]. Field investigations of the acute respiratory effects of machining fluids. September 1, 1995, addendum to the final report to the UAW-GM National Joint Committee on Safety and Health, June 1, 1994.

Kriebel D, Sama SR, Woskie S, Christiani DC, Eisen EA, Hammond K, et al. [1997]. A field investigation of the acute respiratory effects of metal working fluids. I: Effects of aerosol exposures. *Am J Ind Med* 31(6):756-766.

Kreiss K, Cox-Ganser J [1997]. Metalworking fluid-associated hypersensitivity pneumonitis: a workshop summary. *Am J Ind Med* 32(4):423-432.

Krzesniak L, Kowalski J, Droszcz W, Piotrowska B [1981]. Respiratory abnormalities in workers exposed to oil mist. *Eur J Respir Dis* 62 (Suppl 113):88-89.

Leidel NA, Busch KA [1994]. Statistical design and data analysis requirements. In: Harris RL, Cralley LV, eds. *Patty's industrial hygiene and toxicology*. 3rd ed. Vol. 3, Part A. New York, NY: John Wiley and Sons, Inc., pp. 453-582.

Leith D, Leith FA, Boundy MG [1995]. Measuring the concentration of mineral oil mists. In: *Symposium proceedings: the industrial metalworking environment; assessment and control*. Dearborn, MI: American Automobile Manufacturers' Association, pp. 189-195.

Lijinsky W, Kovatch RM [1985]. Induction of liver tumors in rats by nitrosodiethanolamine at low doses. *Carcinogenesis* 6(12):1679-1681.

Lijinsky W, Reuber MD [1984]. Dose-response study with N-nitrosodiethanolamine in F344 rats. *Food Chem Toxicol* 22(1):23-26.

Lijinsky W, Keefer L, Conrad E, Van de Bogart R [1972]. Nitrosation of tertiary amines and some biologic implications. *J Natl Cancer Inst* 49(5):1239-1249.

Lijinsky W, Reuber MD, Manning WB [1980]. Potent carcinogenicity of nitrosodiethanolamine in rats. *Nature* 288(5791):589-590.

Lijinsky W, Saavedra JE, Reuber MD [1984]. Carcinogenesis in rats by some hydroxylated acyclic nitrosamines. *Carcinogenesis* 5(2):167-170.

Loeppky RN, Hansen TJ, Keefer LK [1983]. Reducing nitrosamine contamination in cutting fluids. *Food Chem Toxicol* 21(5):607-613.

Lucke WE, Ernst JM [1992]. Formation and precursors of nitrosamines in metalworking fluids. *J Soc Tribologists Lub Eng* 49(4):271-275.

Mack TM, Paganini-Hill A [1981]. Epidemiology of pancreas cancer in Los Angeles. *Cancer* 47(6):1474-1483.

Mackerer CR [1989]. Health effects of oil mists: a brief review. *Toxicol Ind Health* 5(3):429-440.

Maekawa A, Onodera H, Tanigawa H, Furuta K, Kanno J, Matsuoka C, et al. [1986]. Lack of carcinogenicity of triethanolamine in F344 rats. *J Tox Environ Health* 19(3):345-357.

Magnani C, Coggon D, Osmond C, Acheson E [1987]. Occupation and five cancers: a case-control study using death certificates. *Br J Ind Med* 44(11):769-776.

Malker HS, McLaughlin JK, Silverman DT, Ericsson JLE, Stone BJ, Weiner JA, et al. [1987]. Occupational risks for bladder cancer among men in Sweden. *Cancer Res* 47(24):6763-6766.

Mallin K, Berkeley L, Young Q [1986]. A proportional mortality ratio study of workers in a construction equipment and diesel engine manufacturing plant. *Am J Ind Med* 10(2):127-141.

Mansdorf SZ, Lubs PL [1994]. Role of the industrial hygienist: evaluation and management of occupational skin disease. *Dermatol Clin* 12:591-596.

Massin N, Bohadana AB, Wild P, Goutet P, Kirstetter H, Toamain JP [1996]. Airway responsiveness, respiratory symptoms, and exposures to soluble oil mist in mechanical workers. *Occup Environ Med* 53(11):748-752.

Mastromatteo E [1955]. Cutting oils and squamous-cell carcinoma. Part 1: incidence in a plant with a report of six cases. *Br J Ind Med* 12(3):240-243.

Matanoski GM, Elliott EA [1981]. Bladder cancer epidemiology. *Epidemiol Rev* 50:588-600.

Mathias CGT [1989]. Contact dermatitis and workers' compensation: criteria for establishing occupational causation and aggravation. *J Am Acad Dermatol* 20(5):842-848.

Matte TD, Fine L, Meinhardt TJ, Baker EL [1990]. Guidelines for medical screening in the workplace. *Occup Med: State of the Art Rev* 5(3):439-456.

Mattsby-Baltzer I, Edebo L, Järholm B, Lavenius B [1989a]. Serum antibodies to *Pseudomonas pseudoalcaligenes* in metal workers exposed to infected metal-working fluids. *Int Arch Allergy Appl Immunol* 88(3):304-311.

Mattsby-Baltzer I, Sandin M, Ahlström B, Allenmark S, Edebo M, Falsen E, et al. [1989b]. Microbial growth and accumulation in industrial metal-working fluids. *Appl Environ Microbiol* 55:2681-2689.

Mattsby-Baltzer I, Edebo JL, Järholm B, Lavenius B, Söderström T, et al. [1990]. Subclass distribution of IgG and IgA antibody response to *Pseudomonas pseudoalcaligenes* in humans exposed to infected metal-working fluid. *J Allergy Clin Immunol* 86(2):231-238.

Mausner JS, Kramer S [1985]. *Mausner & Bahn epidemiology—an introductory text*. Philadelphia, PA: WB Saunders.

Maynard AD [1997]. Characterization of six thoracic aerosol samplers using spherical particles. Sheffield, United Kingdom: Health and Safety Executive, Health and Safety Laboratory Internal Report IR/A/97/13.

McAneny JJ, Leith D, Boundy MG [1995]. Volatilization of mineral oil. *Appl Occup Environ Hyg* 10(9):783-787.

McKee RH, Scala RA, Chauzy C [1990]. An evaluation of the epidermal carcinogenic potential of cutting fluids. *J Appl Toxicol* 10(4):251-256.

Menter P, Harrison W, Woodin WG [1975]. Patch testing of coolant fractions. *J Occup Med* 17(9):565-568.

Meredith SK, McDonald JC [1994]. Work-related respiratory disease in the United Kingdom, 1989-1992: report on the SWORD project. *Occup Med* 44(4):183-189.

Meredith SK, Taylor VM, McDonald JC [1991]. Occupational respiratory disease in the United Kingdom 1989: a report to the British Thoracic Society and the Society of Occupational Medicine by the SWORD project group. *Br J Ind Med* 48(5):292-298.

Michel O, Ginanni R, LeBon B, Content J, Duchateau J, Sergysels R [1992]. Inflammatory response to acute inhalation of endotoxin in asthmatic patients. *Am Rev Respir Dis* 146(2):352-357.

Milham S [1983]. Occupational mortality in Washington State, 1950-1979. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 83-116.

Milton DK, Gere RJ, Feldman HA, Greaves IA [1990]. Endotoxin measurement: aerosol sampling and application of a new *Limulus* method. *Am Ind Hyg Assoc* 51(6):331-337.

Milton DK, Wypij D, Kriebel D, Walters MD, Hammond SK, Evans JS [1996]. Endotoxin exposure-response in a fiberglass manufacturing facility. *Am J Ind Med* 29(1):3-13.

Monson R [1990]. Occupational epidemiology. 2nd ed. Boca Raton, FL: CRC Press, Inc.

Nachtman ES, Kalpakjian S [1985]. Lubricants and lubrication in metalworking operations. New York, NY: Marcel Dekker, Inc.

NCMS [1996]. Metalworking fluids evaluation guide. NCMS Report 0274RE95. Industry Review Copy. Ann Arbor, MI: National Center for Manufacturing Sciences.

Neal PA, Schneider R, Caminita, BH [1942]. Report on acute illness among rural mattress makers using low grade, stained cotton. *JAMA* 119:1074-1082.

Nethercott JR [1990]. Practical problems in the use of patch testing in the evaluation of patients with contact dermatitis. *Curr Probl Dermatol* 2(4).

Newhouse R [1982]. Modern metal lubrication. In: *Improving production with coolants and lubricants*. Dearborn, MI: Society of Manufacturing Engineers, pp. 25-29.

Ng TP, Lee HS, Malik MA, Cheong TH, Wang YT [1995]. Asthma in chemical workers exposed to aliphatic polyamines. *Occup Med* 45(1):45-48.

Nilsen OG, Toftgard R, Glaumann H [1981]. Effects of chlorinated paraffins on rat liver microsomal activities and morphology. *Arch Toxicol* 49(8):1-13.

NIOSH [1973]. Statement on proposed permanent standard for certain carcinogens at OSHA hearing before Administrative Law Judge Burton Sternberg, September 14, 1973. NTIS No. PB-87-220-950.

NIOSH [1974]. Criteria for a recommended standard: occupational exposure to cotton dust. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, DHEW (NIOSH) Publication No.75-118.

NIOSH [1976]. Current Intelligence Bulletin 15: nitrosamines in cutting fluids. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 78-127.

NIOSH [1977]. Occupational exposure sampling strategy manual. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Center for Disease Control, National Institute for Occupational Safety and Health, DHEW (NIOSH) Publication No. 77-B173.

NIOSH [1978]. The recirculation of industrial exhaust air. Cincinnati, OH: U.S. Department of Health, Education, and Welfare, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, DHEW (NIOSH) Publication No. 78-141.

NIOSH [1983]. National occupational exposure survey (NOES), 1981-83. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, Division of Surveillance, Hazard Evaluations, and Field Studies, Surveillance Branch, Hazard Section. Unpublished database.

NIOSH [1984]. Health hazard evaluation report: Torrington Company, Torrington, Connecticut. Cincinnati, OH: U.S. Department of Health and Human Services, Public

Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, NIOSH Report No. HHE 82-107-1444.

NIOSH [1985]. Health hazard evaluation report: Raytheon Missile Systems Division, Bristol, Tennessee. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, NIOSH Report No. HHE 83-186-1628.

NIOSH [1986a]. Health hazard evaluation and technical assistance report: TRW Bearings, Inc.; Jamestown and Falconer, New York. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, HETA 84-222-1715.

NIOSH [1986b]. Health hazard evaluation and technical assistance report: E.L. Smithe Machine Company; Duncansville, Pennsylvania. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, HETA 85-039-1723.

NIOSH [1987a]. NIOSH guide to industrial respiratory protection. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 87-116.

NIOSH [1987b]. NIOSH respirator decision logic. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 87-108.

NIOSH [1988a]. Testimony of the National Institute for Occupational Safety and Health on the Occupational Safety and Health Administration's proposed rule on air contaminants, 29 CFR Part 1910, Docket No. H-020. Presented at the OSHA informal public hearing, August 1, 1988. NIOSH policy statements. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.

NIOSH [1988b]. Proposed national strategies for the prevention of leading work-related diseases and injuries, Part 2. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health and the Association of Schools of Public Health.

NIOSH [1989]. Hazard evaluation and technical assistance report: Iowa Industrial Hydraulics, Pocahontas, Iowa. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, NIOSH Report No. HHE 87-092-1967.

NIOSH [1991]. Current Intelligence Bulletin 54: environmental tobacco smoke in the workplace: lung cancer and other health effects. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 91-108.

NIOSH [1992]. Health hazard evaluation: The Genie Company, Alliance, Ohio. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, NIOSH Report No. HHE 92-0002.

NIOSH [1994a]. Hazard evaluation and technical assistance report: Kaiser Aluminum, Trentwood Works, Spokane, Washington. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, NIOSH Report No. HHE 90-286.

NIOSH [1994b]. National Institute For Occupational Safety and Health, Division of Physical Sciences and Engineering, Standard Operating Procedures for Industrial Hygiene Sampling and Chemical Analysis, SOP#018

NIOSH [1994c]. Method Nos. 2522, 2541, 3500, 3501 (supplements issued 5/89); 5026 (supplement issued 8/87); 5506, 5515 (supplements issued 5/85); 0500, 0600, 1500, 1501 (supplements issued 2/84). In: Eller PM, Cassinelli ME, eds. NIOSH manual of analytical methods. 4th ed. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 94-113.

NIOSH [1995]. NIOSH criteria for a recommended standard: occupational exposure to respirable coal mine dust. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health. DHHS (NIOSH) Publication No. 95-106.

NIOSH [1996]. NIOSH guide to the selection and use of particulate respirators certified under 42 CFR 84. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 96-101.

NTP [1986a]. NTP technical report on the toxicology and carcinogenesis studies of chlorinated paraffins (C₂₃, 43% chlorine) in F344/N rats and B6C3F₁ mice. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service, National Institute of Environmental Health Sciences, National Toxicology Program, NTP TR 305.

NTP [1986b]. Toxicology and carcinogenesis studies of chlorinated paraffins (C₁₂, 60% chlorine) in F344/N rats and B6C3F₁ mice. Research Triangle Park, NC: U.S. Depart-

ment of Health and Human Services, Public Health Service, National Institute of Environmental Health Sciences, National Toxicology Program, NTP TR 308.

NTP [1991]. Sixth annual report on carcinogens—1991. Vol. 1. Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program, National Institute of Environmental Health Sciences, Contract No. N01 ES-3-5025.

NTP [1994a]. NTP draft technical report on the toxicology and carcinogenesis studies of triethanolamine (CAS No. 102-71-6) in F344/N rats and B6C3F₁ mice (dermal studies). Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service, National Institute of Environmental Health Sciences, National Toxicology Program, NTP TR 449.

NTP [1994b]. Preliminary pathologist working group: Chairperson's report on selected slides from a 2-year chronic dermal study of DEA in B6C3F₁ mice. National Toxicology Program. Unpublished report.

Okun JD, Archer MC [1977]. Kinetics of nitrosamine formation in the presence of micelle-forming surfactants. *J Natl Cancer Inst* 58(2):409-411.

ORC [1997]. Metal removal fluids: a guide to their management and control. Washington, DC: Organization Resources Counselors, Inc.

Oxhoj H, Andreassen H, Henius UM [1982]. Respiratory symptoms and ventilatory lung function in machine shop workers exposed to coolant-lubricants. *Eur J Respir Dis* 63(Suppl 118):85-89.

Palchak RB, Cohen R, Ainslie M, Hoerner CL [1988]. Airborne endotoxin associated with industrial-scale production of protein products in gram-negative bacteria. *Am Ind Hyg Assoc J* 49(8):420-421.

Park R, Krebs J, Mirer F [1994]. Mortality at an automotive stamping and assembly complex. *Am J Ind Med* 26(4):449-463.

Park RM, Mirer FE [1996]. A survey of mortality at two automotive engine manufacturing plants. *Am J Ind Med* 30(6):664-673.

Park RM, Wegman DH, Silverstein MA, Maizlish NA, Mirer FE [1988]. Causes of death among workers in a bearing manufacturing plant. *Am J Ind Med* 13(5):569-580.

Passman FJ [1992]. Controlling microbial contamination in metal working fluids. Conference on Metal Working Fluids, March 16-18, 1992, Cincinnati, Ohio, MF92-127.

Passman FJ [1995]. Biocide toxicity: a comparison of the toxicological properties of common metalworking fluid biocides. In: Symposium proceedings: the industrial

metalworking environment; assessment and control. Dearborn, MI, November 13-16, 1995. Detroit, MI: American Automobile Manufacturers Association, pp. 82-87.

Patterson R, Fink JN, Miles WB, Basich JE, Schleuter DB, Tinkelman DG, et al. [1981]. Hypersensitivity lung disease presumptively due to *Cephalosporium* in homes contaminated by sewage flooding or by humidifier water. *J Allergy Clin Immunol* 68(2):128-132.

Penes MC, Vallon JJ, Sabot JF, Vallon C [1990]. GC/MS detection of paraffins in a case of lipoid pneumonia following occupational exposure to oil spray. *J Anal Toxicol* 14:372-374.

Pernis B, Vigliani EC, Cavagna G, Finulli M [1961]. The role of bacterial endotoxins in occupational diseases caused by inhaling vegetable dusts. *Br J Ind Med* 18(2):120-129.

Peters JM [1974]. The relationship of acute pulmonary effects of organic materials to chronic pulmonary effects. *Ann NY Acad Med* 221:44-49.

Petersen GR, Milham S [1980]. Occupational mortality in the state of California, 1959-61. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 80-104.

Preussman R, Habs M, Habs H, Schmähl D [1982]. Carcinogenicity of N-nitroso-diethanolamine in rats at five different dose levels. *Cancer Res* 42:5167-5171.

Proudfit JP, van Ordstrand HS, Miller CW [1950]. Chronic lipoid pneumonia following occupational exposure. *Arch Ind Hyg Occup Med* 1(1):105-111.

Pryce DW, Irvine D, English JSC, Rycroft RJG [1989a]. Soluble oil dermatitis: a follow-up study. *Contact Dermatitis* 21(1):28-35.

Pryce DW, White J, English SC, Rycroft RJG [1989b]. Soluble oil dermatitis: a review. *Occup Med* 39(3):93-98.

Reif JS, Pearce N, Fraser J [1989]. Occupational risks for brain cancer: a New Zealand cancer registry-based study. *J Occup Med* 31(10):863-867.

Reilly MJ, Rosenman KD, Watt FC, Schill D, Stanbury M, Trimbath LS, et al. [1994]. Surveillance for occupational asthma—Michigan and New Jersey, 1988-1992. *MMWR* 43 (No. SS-1):9-17.

Robertson AS, Weir DC, Burge PS [1988]. Occupational asthma due to oil mists. *Thorax* 43(3):200-205.

Robins T, Seixas N, Franzblau A, Burge H, Abrams L, Minick S [1994]. Respiratory effects of machining fluid aerosols. Final report to the UAW-GM Occupational Health Advisory Board.

Robins TG, Seixas NS, Burge H, Abrams L, Minick S [1995a]. Association of cross-shift decrements in pulmonary function with machining fluid exposure [Abstract]. *Am J Respir Crit Care Med* 151(No.4, Part 2):A420.

Robins TG, Seixas N, Franzblau A, Abrams L, Minick S, Burge H, et al. [1995b]. Acute respiratory effects of machining fluid aerosols: evidence for a role of bacteria. In: *Symposium proceedings: the industrial metalworking environment; assessment and control*. Dearborn, MI, November 13-16, 1995. Detroit, MI: American Automobile Manufacturers Association, pp. 130-139.

Robins TG, Seixas N, Franzblau A, Abrams L, Minick S, Burge H, et al. [1997]. Acute respiratory effects on workers exposed to metalworking fluid aerosols in an automotive transmission plant. *Am J Ind Med* 31(5):510-524.

Rose C, Robins T, Harkaway P [1996]. Biopsy-confirmed hypersensitivity pneumonitis in automobile production workers exposed to metalworking fluids—Michigan, 1994-1995. *MMWR* 45:606-610.

Rosenman KD, Reilly MJ, Watt FC, Kalinowski DJ [1994]. 1993 Annual report on occupational asthma in Michigan. Michigan State University and Michigan Department of Public Health, March 21, 1994.

Rosenman KD, Reilly MJ, Watt FC, Kalinowski DJ [1995]. Annual report on occupational asthma in Michigan. East Lansing, MI: Michigan State University Department of Medicine and Michigan Department of Public Health and Bureau of Occupational Health.

Rosenman KD, Reilly MJ, Kalinowski DJ [1997a]. A state-based surveillance system for work-related asthma. *J Occup Environ Med* 39:415-425.

Rosenman KD, Reilly MJ, Kalinowski DJ [1997b]. Work-related asthma and respiratory symptoms among workers exposed to metal-working fluids. *Am J Ind Med* 32(4): 325-331.

Rosenstock L, Cullen MR [1986]. *Clinical occupational medicine*. Philadelphia, PA: W.B. Saunders Company.

Ross DJ, Keynes HL, McDonald JC [1997]. SWORD '96: surveillance of work-related and occupational respiratory disease in the UK. *Occup Med* 47:377-331.

Rossmore HW [1981]. Antimicrobial agents for water-based metalworking fluids. *J Occup Med* 23(4):247-254.

Rossmore HW [1986]. Microbial degradation of water-based metalworking fluids. In: Moo-Young M, Cooney CL, Humphres AE, eds. *Comprehensive biotechnology*. New York, NY: Pergamon Press, pp. 249-269.

Rossmore L, Rossmore H [1994]. Metalworking fluid microbiology. In: Byers JP, ed. *Metalworking fluids*. New York, NY: Marcel Dekkar, Inc., pp. 247-271.

Rotimi C, Austin H, Delzell E, Day C, Macaluso M, Honda Y [1993]. Retrospective follow-up study of foundry and engine plant workers. *Am J Ind Med* 24(4):485-498.

Roush GC, Kelly J, Meigs JW, Flannery JT [1982]. Scrotal carcinoma in Connecticut metalworkers. *Am J Epidemiol* 116(1):76-85.

Russi M, Dubrow R, Flannery JT, Cullen MR, Mayne ST [1997]. Occupational exposure to machining fluids and laryngeal cancer risk: contrasting results using two separate control groups. *Am J Ind Med* 31:166-171.

Rycroft RJG [1982]. Cutting fluids, oils, and lubricants. In: Maibach HI, Gellin GA, eds. *Occupational and industrial dermatology*. Chicago, IL: Year Book Medical Publishers, pp. 233-236.

Rycroft RJG [1990]. Petroleum and petroleum derivatives. In: Adams RM, ed. *Occupational skin disease*. 2nd ed. Philadelphia, PA: W.B. Saunders Company, pp. 486-502.

Rylander R, Beijer L [1987]. Inhalation of endotoxin stimulates alveolar macrophage production of platelet-activating factor. *Am Rev Resp Dis* 135(2):83-86.

Rylander R, Fogelmark B [1994]. Inflammatory responses by inhalation of endotoxin and (1-3) β -D-glucan. *Am J Ind Med* 25(1):101-102.

Rylander R, Jacobs RR, eds. [1997]. Endotoxin in the environment. *Intl J Occup Environ Health* 3(1):S1-S31.

Rylander R, Vesterlund J [1982]. Airborne endotoxins in various occupational environments. In: *Endotoxins and their detection with the limulus amebocyte lysate test*. New York, NY: Allen R Liss, pp. 339-409.

Rylander R, Haglind P, Lundholm M [1985]. Endotoxin in cotton dust and respiratory function decrement among cotton workers in an experimental cardroom. *Am Rev Respir Dis* 131:209-213.

Salmeen I, Brown JA Jr., Foxall-Van Aken S, Olsen RH [1987]. Presence of *Acinetobacter* species among the predominant bacteria found in a contaminated metal-working fluid. *Tribology Intl* 20:218-221.

Sama SR, Kriebel D, Woskie S, Eisen EA, Wegman DH, Virji MA [1997]. A field investigation of the acute respiratory effects of metal working fluids. II: Effects of airborne sulfur exposures. *Am J Ind Med* 31(6):767-776.

Savonius B, Keskinen H, Tuppurainen M, Kanerva L [1994]. Occupational asthma caused by ethanalamines. *Allergy* 49(10):877-881.

Schaper MM [1993]. Development of a database for sensory irritants and its use in establishing occupational exposure limits. *Am Ind Hyg Assoc J* 54:488-544.

Schaper M, Detwiler K [1991]. Evaluation of the acute respiratory effects of aerosolized machining fluids in mice. *Fund Appl Toxicol* 16(2):309-319.

Schaper MM, Detwiler-Okabayashi KA [1995a]. An approach for evaluating the respiratory irritation of mixtures: application to metalworking fluids. *Arch Toxicol* 69(10):671-676.

Schaper MM, Detwiler-Okabayashi KA [1995b]. Use of a bioassay to evaluate the respiratory irritancy of metalworking fluids and their components. In: *Symposium proceedings: the industrial metalworking environment; assessment and control*. Dearborn, MI, November 13-16, 1995. Detroit, MI: American Automobile Manufacturers Association, pp. 88-94.

Schiffllers E, Jamart J, Renard V [1987]. Tobacco and occupation as risk factors in bladder cancer: a case-control study in southern Belgium. *Int J Cancer* 39(3):287-292.

Schroeder JC, Tolbert PE, Eisen EA, Monson RR, Hallock MF, Smith TJ, et al. [1997]. Mortality studies of machining fluid exposure in the automobile industry. IV: a case-control study of lung cancer. *Am J Ind Med* 31(5):525-533.

Schulte PA, Ringen K, Hemstreet GP, Altekruze EB, Gullen WH, Patton MG et al. [1985]. Risk assessment of a cohort exposed to aromatic amines. *J Occup Med* 27(2): 115-121.

Schwartz DA, Thorne PS, Olenchok SA, Lewis DA [1996]. Determinants of longitudinal changes in airflow among grain workers. Unpublished.

SENSOR [1996]. Unpublished observations.

Shrank AB [1985]. Allergy to cutting oil. *Contact Dermatitis* 12(4):229.

Shulman S, Glaser R [1997]. Computational formulas for total standard deviation of combined gravimetric-analytical procedures. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, NIOSH Technical Report no. PB97-197073.

Siemiatycki J, Dewar R, Nadon L, Gerin M, Richardson L, Wacholder [1987]. Associations between several sites of cancer and twelve petroleum-derived liquids. *Scand J Work Environ Health* 13(6):493-504.

Siemiatycki J, Wacholder S, Dewar R, Cardis E, Greenwood C, Richardson L [1988]. Degree of confounding bias related to smoking, ethnic group, and socioeconomic status in estimates of the associations between occupation and cancer. *J Occup Med* 30(8): 617-625.

Silverman DT, Hoover RN, Albert S, Graff KM [1983]. Occupation and cancer of the lower urinary tract in Detroit. *J Natl Cancer Inst* 70(2):237-245.

Silverman DT, Levin LI, Hoover RN [1989a]. Occupational risks of bladder cancer in the United States: I. White men. *J Natl Cancer Inst* 81(19):1472-1479.

Silverman DT, Levin LI, Hoover RN, Hartge P [1989b]. Occupational risks of bladder cancer in the United States: I. Nonwhite men. *J Natl Cancer Inst* 81(19):1480-1483.

Silverman DT, Dunn JA, Hoover RN, Schiffman M, Lillemoe KD, Schoenberg JB, et al. [1994]. Cigarette smoking and pancreas cancer: a case-control study based on direct interviews. *J Natl Cancer Inst* 86(20):1510-1516.

Silverstein M, Park R, Marmor M, Maizlish N, Mirer F [1988]. Mortality among bearing plant workers exposed to metalworking fluids and abrasives. *J Occup Med* 30(9):706-714.

Skisak CM [1995]. Metalworking fluids: base oil safety. In: *Symposium proceedings: the industrial metalworking environment; assessment and control*. Dearborn, MI, November 13-16, 1995. Detroit, MI: American Automobile Manufacturers Association, pp. 44-49.

Smits CA [1994]. Performance of metalworking fluids in a grinding system. In: Byers JP, ed. *Metalworking fluids*. New York, NY: Marcel Dekkar, Inc., pp. 99-134.

Snella MC [1981]. Effects of bacterial endotoxin inhalation. *Rev Epidemiol Santé Publ* 29:209-216.

Soderholm SC [1993]. Proposal for converting "total" dust limits to inhalable and thoracic dust limits. *Appl Occup Environ Hyg* 8(5):453-457.

Speigelhalter B [1980]. Formation and occurrence of carcinogenic nitrosamines in cutting oils used for metal abrasion. *Berufsgenossenschaft* 3:188-191.

Sprince NL [1992]. Hard metal disease. In: Rom WN, ed. *Environmental and occupational medicine*. 2nd ed. Boston, MA: Little Brown and Company, pp. 791-798.

Sprince N, Thorne PS, Cullen M [1994]. Oils and related derivatives. In: Rosenstock L, Cullen MR, eds. *Textbook of clinical occupational and environmental medicine*. Philadelphia, PA: W.B. Saunders Co., pp. 814-824.

Sprince NL, Palmer JA, Poppendorf W, Thorne PS, Selim MI, Zweling C, et al. [1996]. Dermatitis among automobile production machine operators exposed to metal-working fluids. *Am J Ind Med* 30(4):421-429.

Sprince NL, Thorne PS, Poppendorf W, Zweling C, Miller ER, DeKoster JA [1997]. Respiratory symptoms and lung function abnormalities among machine operators in automobile production. *Am J Ind Med* 31(4):403-404.

Steenland K, Burnett C, Osorio AM [1987]. A case-control study of bladder cancer using city directories as a source of occupational data. *Am J Epidemiol* 126(2):247-257.

Steenland K, Schnorr T, Beaumont J, Halperin W, Bloom T [1988]. Incidence of laryngeal cancer and exposure to acid mists. *Br J Ind Med* 45(11):766-776.

Sun JD, Beskitt JL, Tallant MJ, Frantz SW [1996]. In vitro skin penetration of monoethanolamine and diethanolamine using excised skin from rats, mice, rabbits, and humans. *J Toxicol. Cut Ocular Toxicol.* 15(2):131-146.

Tabona M, Chan-Yeung M, Enarson D, MacLean L, Dorken E, Schulzer M [1984]. Host factors affecting longitudinal decline in lung spirometry among grain workers. *Chest* 85(6):782-786.

Tant CO, Bennett EO [1956]. The isolation of pathogenic bacteria from used emulsion oils. *Appl Microbiol* 4:332-338.

Thomas TL, Fontham ETH, Norman SA, Stemhagen A, Hoover RN [1986]. Occupational risk factors for brain tumors. A case-referent death-certificate analysis. *Scand J Work Environ Health* 12(2):121-127.

Thomas TL, Stewart PA, Stemhagen A, Correa P, Norman SA, Bleecker ML, et al. [1987]. Risk of astrocytic brain tumors associated with occupational chemical exposures. *Scand J Work Environ Health* 13(5):417-423.

Thony C, Thony J, LaFontaine M, Limasset JC [1976]. Carcinogenic aromatic polycyclic hydrocarbons in petroleum products. Possibilities for preventing mineral oil cancer. *Inserm Symposia Series* 52:165-170.

Thorne PS, DeKoster JA, Subramanian P [1995]. Bioaerosols and airborne endotoxins in a machining plant. In: *Symposium proceedings: the industrial metalworking environment; assessment and control*. Dearborn, MI, November 13-16, 1995. Detroit, MI: American Automobile Manufacturers Association, pp. 244-247.

- Tola S, Tenho M, Korkala M-L, Järvinen E [1980]. Cancer of the urinary bladder in Finland. *Int Arch Occup Environ Health* 46:43–51.
- Tola S, Kalliomäki P, Pukkala E, Asp S, Korkala M [1988]. Incidence of cancer among welders, platers, machinists, and pipe fitters in shipyards and machine shops. *Br J Ind Med* 45(4):209–218.
- Tolbert PE, Eisen EA, Pothier LJ, Monson RR, Hallock MF, Smith TJ [1992]. Mortality studies of machining-fluid exposure in the automobile industry. II. Risks associated with specific fluid types. *Scand J Work Environ Health* 18(6):351–360.
- Tsuji T, Otake N, Kobayashi T, Miwa N [1992]. Multiple keratoses and squamous cell carcinoma from cutting oil. *J Am Acad Derm* 27(5):767–768.
- Tucker SB [1988]. Prevention of occupational skin disease. *Dermatologic Clinics. Occupational Dermatoses* 6:87–96.
- USITC [1989]. Organic compounds, chlorinated paraffins. The United States International Trade Commission.
- USP [1985]. Bacterial endotoxin test. In: United States pharmacopeia. Vol. 21, Mack, PA: Mack Publishing, pp.1165–1167.
- Vahle HR [1982]. Synthetic metalworking fluids: A closer look. In: Manufacturing Update Series. 1st ed. Dearborn, MI: Society of Manufacturing Engineers, pp. 40–48.
- Van den Heever DJ [1994]. Quantification of bypass leakage in two different filter cassettes during welding fume sampling. *Am Ind Hyg Assoc J* 55(10):966–969.
- Vena JE, Sultz HA, Fiedler RC, Barnes RE [1985]. Mortality of workers in an automobile engine and parts manufacturing complex. *Br J Ind Med* 42(2):85–93.
- Vincent JH [1989]. Aerosol sampling: science and practice. New York, NY: John Wiley & Sons, p. 328.
- Vineis P, Magnani C [1985]. Occupation and bladder cancer in males: a case-control study. *Int J Cancer* 35:599–606.
- Waldron HA [1983]. A brief history of scrotal cancer. *Br J Ind Med* 40(4):390–401.
- Wang H-W, John W [1988]. Characteristics of the Berner impactor for sampling inorganic ions. *Aerosol Sci Technol* 8(2):157–172.
- Ward JM, Fox JG, Anver MR, Haines DC, George CV, Collins MJ Jr., et al. [1994a]. Chronic active hepatitis and associated liver tumors in mice caused by a persistent bacterial infection with a novel *Heliobacter* species. *J Natl Cancer Inst* 86(16):1222–1227.
- Ward JM, Anver MR, Haines DC, Benveniste RE [1994b]. Chronic active hepatitis in mice caused by *Heliobacter hepaticus*. *Am J Pathol* 145:959–968.

Waterhouse JAH [1971]. Cutting oils and cancer. *Ann Occup Hyg* 14(2):161-170.

Waterhouse JAH [1972]. Lung cancer and gastro-intestinal cancer in mineral oil workers. *Ann Occup Hyg* 15(1):43-44.

Wegman DH, Musk W, Main DM, Pagnotta LD [1982]. Accelerated loss of FEV-1 in polyurethane production workers: a four-year prospective study. *Am J Ind Med* 3(2):209-215.

Weill H [1984]. Relations between acute and chronic occupational airway responses. In: Gee JBL, Morgan WKC, Brooks SM, eds. *Occupational lung diseases*. New York, NY: Raven Press, pp. 87-95.

Weindel HF [1982]. Elements of selecting and using metal-cutting fluids. In: *Improving production with coolants and lubricants*. Dearborn, MI: Society of Manufacturing Engineers, p. 34.

Wigger-Alberti W, Hinnen U, Elsner P [1997]. Predictive testing of metalworking fluids: a comparison of 2 cumulative human irritation models and correlation with epidemiological data. *Contact Dermatitis* 36:14-20.

Wild P, Ameille J [1997]. Bronchial reactivity in oil-mist exposed automobile workers revisited [letter to the editor]. *Am J Ind Med* 32(4):421-432.

Williams RR, Stegens NL, Goldsmith JR [1977]. Associations of cancer site and type with occupation and industry from the Third National Cancer Survey Interview. *J Natl Cancer Inst* 59(4):1147-1185.

Wort MD, Lloyd GI, Schofield J [1976]. Microbiological examination of six industrial soluble oil emulsion samples. *Tribology Intl Feb*:35-37.

Wortley P, Vaughan TL, Davis S, Morgan MS, Thomas DB [1992]. A case-control study of occupational risk factors for laryngeal cancer. *Br J Ind Med* 49(12):837-844.

Woskie SR, Smith TJ, Hallock MF, Hammond SK, Rosenthal F, Eisen EA, et al. [1994]. Size-selective pulmonary dose indices for metal-working fluid aerosols in machining and grinding operations in the automobile manufacturing industry. *Am Ind Hyg Assoc J* 55(1):20-29.

Woskie S [1996]. Memorandum of May 27, 1996, from S. Woskie, Associate Professor, Department of Work Environment, University of Massachusetts Lowell, to L.J. Fine, Director, Division of Surveillance, Hazard Evaluation, and Field Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Public Health Service, National Institute for Occupational Safety and Health.

Yacher JM, Heitbrink WA, Burrough GE [1997]. In-depth survey report: concentration of metalworking mists before and after installation of a commercial air cleaner. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Report No. ECTB 218-12a.

Zagraniski RT, Kelsey JL, Walter SD [1986]. Occupational risk factors for laryngeal carcinoma: Connecticut, 1975-1980. *Am J Epidemiol* 124(1):67-76.

Zheng W, Blot WJ, Shu X, Gao Y, Ji B, Ziegler RG, et al. [1992]. Diet and other risk factors for laryngeal cancer in Shanghai, China. *Am J Epidemiol* 136(2):178-191.

Zugerman C [1986]. Cutting fluids. Their use and effects on the skin. *Occup Med: State of the Art Rev* 1(2):245-258.