

## David Kriebel

### EDUCATION

University of Wisconsin  
Green Bay, WI  
B.S. Human Biology, 1977  
*summa cum laude*

Harvard School of Public Health  
Sc. M. Physiology, 1983

Harvard School of Public Health  
Sc.D. Epidemiology and Occupational  
Health, 1986

### ACADEMIC APPOINTMENTS

Teaching Fellow Harvard School of Public Health, Department of Environmental Science and Physiology, 1/85 - 6/86.

Research Associate Harvard School of Public Health, Occupational Health Program, 7/86 - 6/87.

Assistant Professor of Occupational Health and Epidemiology, Harvard School of Public Health, joint appointment in Departments of Environmental Science and Physiology, and Epidemiology, 7/87 - 9/88.

Assistant Professor of Work Environment, University of Massachusetts Lowell, MA., 9/88 - 8/92.

Co-Director, Lowell Center for Sustainable Production, Lowell MA. 1995 – present.

Associate Professor of Work Environment, University of Massachusetts Lowell, 9/92 - 8/99.

Professor of Work Environment, University of Massachusetts Lowell, 9/99 – present.

### OTHER EMPLOYMENT

Research Assistant Center for the Biology of Natural Systems, St. Louis, MO. 9/72 - 6/73.

Computing Consultant University of Wisconsin, Green Bay, WI. 6/76 - 12/77.

Research Associate Center for the Biology of Natural Systems, Washington University, St. Louis, MO. 1/78 - 8/81.

Co-director Carcinogen Information Program, Washington University, St. Louis, MO.  
1/79 - 3/81.

Epidemiology Consultant Harriet Hardy Institute, Boston, MA, 6/82 - 9/82.

Epidemiologist Center for the Study and Prevention of Cancer, Florence, Italy, 9/83 -  
1/84.

Epidemiology Consultant Massachusetts Department of Public Health, Center for Health  
Promotion and Environmental Disease Prevention, 1986.

## **FELLOWSHIPS**

National Environmental Health Association Undergraduate Scholarship, 1974.

International Union against Cancer Traveling Fellowship, 9/83 - 1/84.

Italian League against Cancer Visiting Scientist Award, 9/83 - 1/84.

Post-doctoral Fellow, University of Massachusetts Medical Center Department of Family  
and Community Medicine, Environmental Health Program, 7/86 - 2/87.

Fulbright Fellow, Institute of Pharmacology and Toxicology, University of Florence, and  
Center for the Study and Prevention of Cancer, Florence, Italy, 11/87 - 8/88.

## **SCIENTIFIC ACTIVITIES**

Education editor for the journal *Environment*, 1/74 - 1/75.

Invited to China by the National Institute of Occupational Medicine to consult on  
respiratory disease in a Chinese beryllium factory, 6/86.

Editorial Board, *New Solutions, A Journal of Environmental and Occupational Health  
Policy*, 1990 - present.

Member, Peer Review Panel, Health Effects Institute, Chronic Effects of Ozone Study  
Section, Spring, 1992

Reviewer for the following peer reviewed journals:

*American Journal of Industrial Medicine*

*American Journal of Industrial Hygiene*

*American Journal of Epidemiology*

*American Journal of Public Health*

*Archives of General Psychiatry*

*BMC Medical Research Methodology*  
*Cancer Causes and Control*  
*Environmental Health Perspectives*  
*Epidemiology*  
*International Journal of Epidemiology*  
*Journal of Public Health Policy*  
*Journal of Sleep Research*  
*Laboratory Investigation*  
*New Solutions*  
*Occupational & Environmental Medicine*  
*Ontario Workplace Safety & Insurance Board*

Advisor on beryllium research, National Institute for Occupational Safety and Health, 1985 - 1992.

Member, National Academy of Sciences, Institute of Medicine Committee to Review the Health Effects of Herbicides in Vietnam Veterans, 12/92 - 5/96.

Member, Site Visit Panel, Health Effects Institute, Ozone Exposure and Daily Mortality in Mexico City, 3/94.

Member, National Institute for Occupational Safety and Health Study Section (NIH peer review panel) 7/96 - 6/98.

Invited member, Workshop on on-going and future projects on asbestos-related diseases, International Agency for Research on Cancer, Paris, December 1997.

Consultant, Mass. Department of Public Health, Occupational Health Surveillance Program, Breast Cancer and Occupation Project, 3/01 to 3/02.

Member, National Institute for Occupational Safety and Health Site Review Committee for Educational Research Center grant, 9/03.

Member, Scientific Advisory Committee, Piedmont (Italy) Regional Center for Cancer Epidemiology and Prevention. 5/03 - present.

Member, Mass. Department of Environmental Protection, Perchlorate Health Effects Advisory Committee. 2003 – 2007.

Invited contributor, Workshop on Occupational Cancer Burden, U.K. Health & Safety Inspectorate, Manchester, U.K. November 2004.

Invited contributor, “Workshop on evaluating evidence: the use, misuse and development of ‘criteria’ in the assessment of scientific evidence on health and environmental hazards, 1965 – 2005”. European Environment Agency and Imperial College London, December 2005.

Invited contributor, "Workshop on dealing with uncertainty: setting the agenda for the 5th ministerial conference on environment and health, 2009". WHO Office for Europe. Copenhagen, December 2005.

Member, National Academy of Sciences, Board on Environmental Science and Toxicology, Committee on Beryllium 2007 – 2008.

## GRANT SUPPORT

1. Ford Foundation, "Venture Fund Small Grant: Environmental Problem Solving Workshop". David Kriebel and Neil Jacobstein, Co-Principal Investigators, 6/74 - 5/75.
2. National Science Foundation, "Air and Noise Analysis of Interior Recreational Environments". David Kriebel and Neil Jacobstein, Co-Principal Investigators, 6/75 - 5/76.
3. National Institute for Occupational Safety and Health, "Respiratory Disease in Beryllium Workers". David Kriebel, Principal Investigator, 08/84 - 09/86; \$28,995.
4. National Institute for Environmental Health Sciences, "Epidemiologic Methods for Estimating Airborne Exposures". David Kriebel, Principal Investigator, 12/86 - 11/89; \$165,496.
5. National Institute for Environmental Health Sciences, "Epidemiologic Methods for Estimating Airborne Exposures" (competitive renewal). David Kriebel, Principal Investigator, 8/90 - 7/93; \$381,237.
6. National Institute for Occupational Safety and Health, "Improved Magnetic Field Exposure Assessment". David Kriebel, Principal Investigator, 12/90 - 11/92; \$52,200.
7. United Autoworkers/General Motors Joint National Committee on Health and Safety, "Field Investigations of the Acute Respiratory Effects of Machining Fluids". David Kriebel, Principal Investigator, 1/91 - 6/95; \$970,614.
8. National Institutes of Health, "Epidemiologic Study of Pulmonary Effects of Formaldehyde". David Kriebel, Principal Investigator, 8/92 - 7/95; \$282,399.
9. Jesse B. Cox Charitable Trust, "Developing Sustainable Production." 4/97-3/99, \$125,000.
10. National Cancer Institute, "Lung Cancer and Exposure to Chrysotile and Amphiboles". David Kriebel, Principal Investigator, Metoda Dodic-Fikfak, Small

Grant Investigator, 7/97 - 6/01; \$72,800.

11. Merck Foundation, “The Precautionary Principle in Environmental Regulation in Massachusetts”. David Kriebel, Principal Investigator, 1/99-12/01; \$50,000.
12. Centers for Disease Control/NIOSH, “Metalworking Fluids and Aerodigestive Cancer Risk”. David Kriebel, Principal Investigator, 7/99-6/01; \$268,499.
13. Centers for Disease Control/NIOSH, “The Role of Social Networks in Workplace Injuries”. David Kriebel, Principal Investigator, Douglas Myers, Small Grant Investigator, 1/01 - 12/02; \$ 76,294.
14. Association of Teachers of Preventive Medicine/Centers for Disease Control, “Development of a Simplified 2-Stage Cancer Model”. David Kriebel, Principal Investigator, 10/01/01 – 9/30/03; \$60,000.
15. Association of Teachers of Preventive Medicine/Centers for Disease Control, “Disease Clustering and Episodic Environmental Releases’. David Kriebel, Principal Investigator, Kate Adams, Small Grant Investigator, 10/01/03 – 9/30/05; \$150,000.

## **MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES**

Treasurer, Harriet Hardy Institute, Boston, MA. 1996 - 2002.

Member, American Public Health Association.

Member, American Conference of Government Industrial Hygienists.

Member, Society for Epidemiologic Research.

Member, International Commission on Occupational Health.

## **TEACHING ACTIVITIES**

### U. Mass. Lowell Courses

Designed and taught (annually): Introduction to Epidemiology and Biostatistics, 19.575.

Designed and taught (annually): Occupational and Environmental Epidemiology, 19.672.

Designed and taught (annually): Quantitative Models for Environmental Health Assessment. 19.687.

Designed and taught (annually): Epidemiologic Theory, 19.725.

***Taught at least once***

Risk Assessment, 19.683.

Applied Regression Methods, 19.684

Research Synthesis for Environmental Health Policy, 19.688.

Designed and taught: Epidemiology for Environmental Studies, 18.525.

Designed and taught: Epidemiology Methods II. 19.671 (formerly 19.571).

***Regular lecturer in other courses***

Introduction to the Work Environment, 19.500.

Toxicology and Health, 19.503.

Exposure Assessment, 19.610.

Risk Assessment, 19.683.

***Seminar Organizer for:***

Work Environment Seminar, 19.599.

Work in Progress Seminars, Dept. of Work Environment.

Epidemiology Research Seminar.

**Teaching Awards**

First recipient of the Work Environment Students Association Award for Teaching Excellence, 1992.

Recipient, Teacher of the Year Award, University of Massachusetts Lowell Graduate Students Association, 1996-97.

Recipient, Teaching Excellence Award, University of Massachusetts Lowell Student Government Association, 1997-98.

**Short Courses**

Multivariate modeling in epidemiology, a fourteen hour course, sponsored by the Region of Tuscany (Italy) Center for Education and Research, and the Center of for the Study and Prevention of Cancer, February-April, 1988.

Microcomputer-assisted analyses of toxicologic data [in Italian], a ten hour course for the Institute of Toxicology and Pharmacology, University of Florence, April-May, 1990.

Occupational epidemiology: advances in exposure assessment, a 40 hour course [in Italian] taught with Margaret M. Quinn, Florence Italy, January 1991, March 1993, June 1994, and June 1996.

Occupational epidemiology. Michigan Summer Session in Epidemiology, one week course, July 1996.

Director of 3-day Module on Analytical Epidemiology in a course on Environmental Epidemiology [in Italian] for Tuscan Regional Environmental Protection Agency, Florence, January 1999.

Lecturer in the Epidemiology Masters Degree Program sponsored by the Italian Epidemiology Association. Lecturer in 1-week course on Cohort Studies [in Italian], Turin, April 1999, May 2001, May 2003, April 2005, May 2007.

Exposure Assessment and Epidemiology. 3-day course taught by Professors Margaret Quinn and David Kriebel, May 21 through 23<sup>rd</sup>, 2003. Federal University of Brazil in Campinas (UNICAMP).

Precaution and science: the limits of epidemiology. Brazil Chemical Workers' Union, Campinas Branch. May 20, 2003.

Federal University of Brazil in Pelotas, School of Medicine, Department of Social Medicine. Four day course taught by Professors Margaret Quinn and David Kriebel, May 27 through 30, 2003.

Biologically-based Models in Epidemiology. 9-hour course at the National Institute for Occupational Safety and Health, Morgantown WV, Nov. 2008.

## **DOCTORAL STUDENTS**

### Graduated

Thurman Wenzl, 1992. Estimating worker exposure to power-frequency magnetic fields.

Susan Sama, 1996. Metal working fluids and acute respiratory responses.

Metoda Dodic-Fikfak, 1998. Lung Cancer and Exposure to Chrysotile and Amphiboles.

Deborah Thompson, 2001. Breast Cancer and Exposure to Metal working fluids.

Ariana Zeka, 2003. Metalworking fluids and aerodigestive cancer risk

Robert Wallace, 2003. Improved predictive models for heat stress.

Doug Myers, 2003. The role of social networks in workplace injuries.

Phil Hunt, 2006. Methods to quantify the contributions of exposures and group characteristics to disease risk in complex occupational exposure models.

Kate Adams, 2006. Disease clustering and episodic environmental releases.

Grace Sembajwe, 2007. Multilevel models and agreement scores in occupational epidemiology: self-reports and expert judgments in the United for Health Study and the

World Health Survey.

Hyun Kim, 2008. Improved methods for injury surveillance: sharps injuries in healthcare workers.

Helen Wellman, 2008. Occupational injury in a Vietnamese commune: a prospective surveillance study.

Nurhayati Prihartono, 2008. Solvent and pesticide exposures and risk of aplastic anemia in Thailand.

Current (dissertation topics listed, if student is in dissertation phase)

Cynthia Hanna

## **COMMITTEE AND ADMINISTRATIVE SERVICES (U.Mass. Lowell)**

Member, Committee on Honorary Degrees, 1989 - 2003.

Member of the following Department of Work Environment committees: Student recruitment, Faculty search, Epidemiology concentration, Computer systems, Computer programmer search.

Member, University-wide Taskforce on Program Moratoria, 1993.

Department Graduate Coordinator, January - July 1995.

Department Admissions Coordinator, 1995 - present.

Graduate Certificate in Environmental Risk Assessment, Coordinator, 1995 - present.

Co-Director, Lowell Center for Sustainable Production, 1996 - present.

Special Assistant to the Dean for Program Planning, School of Health and Environment, 2003-present.

School of Health & Environment Personnel Committee, 2004 – 2005.

University Rank & Tenure Committee, 2004.

## **COMMUNITY SERVICE**

Member, Board of Directors, Neshaminy Valley Watershed Association, 1971 - 1972.

U.S. Presidential Citation of Excellence for Environmental Protection Services, 1972.

Co-founder, Union of Young Environmentalists, a national environmental organization, 1973.

National Environmental Education Advisory Council, U.S. Department of Health, Education and Welfare, Washington, D.C. 1976.

Member, Board of Directors, Northeastern Wisconsin Health Systems Agency, Green Bay, WI. 1975 - 77.

Member, Advisory committee to the Tuscan regional government on hospital waste incineration, 1988.

## **BIBLIOGRAPHY**

### PUBLICATIONS IN SCIENTIFIC JOURNALS

#### **Peer Reviewed:**

1. Kriebel D, Jowett D. Stomach cancer mortality in the north central states: high risk is not limited to the foreign born. *Nutrition and Cancer* 1979; 1:8-12.
2. Dolara P, Commoner B, Vithayathil A, Cuca G, Tuley E, Madyastha P, Nair, S, Kriebel D. The effect of temperature on the formation of mutagens in heated beef stock and cooked ground beef. *Mutation Research* 1979; 60:231-237.
3. Cecchi F, Buiatti E, Kriebel D, Nastasi L, Santucci M. Adenocarcinoma of the nose and paranasal sinuses in shoemakers and woodworkers in the province of Florence, Italy (1963-1977). *British Journal of Industrial Medicine* 1980; 37:4-14.
4. Kriebel D. Occupational injuries: factors associated with frequency and severity. *International Archives of Occupational and Environmental Health* 1982; 50:209-218.
5. Kriebel D, Commoner B, Bollinger D, Bronsdon A, Gold J, Henry J. Detection of occupational exposure to genotoxic agents with a urinary mutagen assay. *Mutation Research* 1983; 108:67-79.
6. Buiatti E, Barchielli A, Geddes M, Nastasi L, Kriebel D, Franchini M, Scorselli G. Risk factors in male infertility: a case-control study. *Archives of Environmental Health* 1984; 39:266-270.
7. Kriebel D, Henry J, Gold J, Bronsdon A, Commoner B. The mutagenicity of cigarette smokers' urine. *Journal of Environmental Pathology, Toxicology and Oncology*, 1985; 6:157-170.
8. Buiatti E, Kriebel D, Geddes M, Santucci M, Pucci N. A case control study of lung cancer in Florence, Italy: I. Occupational risk factors. *Journal of Epidemiology and Community Health* 1985; 39:244-250.
9. Buiatti E, Geddes M, Kriebel D, Santucci M, Biggeri A. A case control study of lung cancer in Florence, Italy: II. The effect of migration from the south. *Journal of Epidemiology and Community Health* 1985; 39:251-255.

10. Christiani D, Kriebel D, Fox N, Baker E. Persistently elevated polychlorinated biphenyl residual contamination of workplace surfaces. *American Journal of Industrial Medicine* 1986; 10:143-151.
11. Quinn MM, Kriebel D, Buiatti E, Paci E, Sini S, Vannucchi G, Zappa M. An asbestos hazard in the reprocessed textile industry. *American Journal of Industrial Medicine* 1987; 11:255-266.
12. Rockoff SD, Kagan E, Schwartz A, Kriebel D, Hix W, Rohtagi P. Visceral pleural thickening in asbestos exposure. *J Thoracic Imaging*, 1987; 2:58-66.
13. Dolara P, Lodovici M, Salvadori M, Saltutti A, Delle Rose A, Selli C, Kriebel D. Variations of cortisol hydroxylation and paracetamol metabolism in patients with bladder carcinoma. *Br J Urology* 1988; 62:419-426.
14. Kriebel D, Brain J, Sprince N, Kazemi H. The pulmonary toxicity of beryllium. *American Review of Respiratory Disease* 1988; 137:464-473.
15. Kriebel D, Sprince N, Eisen E, Greaves I. Pulmonary function in beryllium workers: assessment of exposure. *British Journal of Industrial Medicine* 1988; 45:83-92.
16. Kriebel D, Sprince N, Eisen E, Greaves I, Feldman H, Greene R. Beryllium exposure and pulmonary function: a cross-sectional study of beryllium workers. *British Journal of Industrial Medicine* 1988; 45:167-173.
17. Caderni G, Bianchini F, Dolara P, Kriebel D. Proliferative activity in the colon of the mouse and its modulation by dietary starch, fat, and cellulose. *Cancer Research* 1989; 49:1655-1659.
18. Bianchini F, Caderni G, Dolara P, Fantetti L, Kriebel D. Effect of dietary fat, starch and cellulose on fecal bile acids in mice. *J Nutrition* 1989; 119:1617-1624.
19. Kennedy S., Greaves I., Kriebel D., Eisen E., Smith T., Woskie S. Acute pulmonary responses among automobile workers exposed to aerosols of machining fluids. *American Journal Industrial Medicine*, 1989; 15:627-641.
20. Kriebel D, Smith TJ. A nonlinear pharmacologic model of the acute effects of ozone on the human lungs. *Environmental Research*, 1990; 51:120-146.
21. Sama S, Martin TR, Davis L, Kriebel D. Cancer incidence among Massachusetts firefighters, 1982-1986. *American Journal of Industrial Medicine* 1990; 18:47-54.
22. Eisen EA, Kriebel D, Wegman DH, Woskie SR, Hu X. An epidemiologic approach to the study of acute reversible health effects in the workplace. *Epidemiology* 1991; 2:263-270.

23. Caderni G, Bianchini F, Dolara P, Kriebel D. Starchy foods and colon proliferation in mice. *Nutrition and Cancer* 1991; 15:33-40.
24. Becherini R, Seniori Costantini A, Benelli R, Calistri S, Gasperini M, Gavazzi M, Masala G, Merler E, Monechi V, Nannini R, Paci E, Kriebel D. Tumors of the urinary tract in textile workers in the area of Prato (Italy) [in Italian]. *Medicina del Lavoro* 1991; 82:492-503.
25. Zappa M, Paci E, Costantini A, Kriebel D. Lung cancer among textile workers in the Prato area of Italy. *Scand J Work Environ Health* 1993; 19:16-20.
26. Eisen EA, Wegman DH, Kriebel D. Application of peak expiratory flow in epidemiologic studies of occupation. *Occupational Medicine: State of the Art Reviews* 1993; 8:265-277.
27. Dahlquist M, Eisen EA, Wegman DH, Kriebel D. Reproducibility of peak expiratory flow measurements. *Occupational Medicine: State of the Art Reviews* 1993; 8:295-302.
28. Kriebel D, Sama S, Cocanour B. Reversible pulmonary responses to irritants: a study of students in university laboratories. *American Review of Respiratory Disease* 1993; 148:1509-1515.
29. Dhara VR, Kriebel D. An exposure-response method for assessing the long term health effects of the Bhopal gas disaster. *Disasters* 1993; 17:281-290.
30. Woskie S, Smith T, Hallock M, Hammond S, Rosenthal F, Eisen E, Kriebel D, Greaves I. Size selective pulmonary dose indices for coolant fluid aerosols in machining and grinding operations in the automobile manufacturing industry. *American Industrial Hygiene Association Journal* 1994; 55:20-29.
31. Kriebel D. The dosimetric model in epidemiology. *Occupational Hygiene*, 1994; 1:55-68
32. Ballew, M, Kriebel D, Smith TJ. Epidemiologic application of a dosimetric model of dust overload. *American Journal of Epidemiology*, 1995; 141:690-696.
33. Wenzl TB, Kriebel D, Eisen EA, Moure-Eraso R. A comparison of two methods for estimating average exposure to power-frequency magnetic fields. *Applied Occupational and Environmental Hygiene* 1995; 10:125-130.
34. Milton DK, Wypij D, Kriebel D, Walters MD, Hammond SK, Evans JS. Endotoxin exposure-response in a fiberglass manufacturing facility. *Am J Industrial Medicine* 1996; 29:3-13.
35. Sullivan P, Eisen EA, Kriebel, D, Wegman DH. Estimating risk under varying

models of occupational exposure. *Occupational Hygiene*, 3:185-190, 1996.

36. Forastiere F, Corbo GM, Dell'Orco V, Pistelli R, Agabiti N, Kriebel D. A longitudinal evaluation of bronchial responsiveness to methacholine in children: role of baseline lung function, gender, and change in atopic status. *Am J Respiratory and Critical Care Medicine* 1996;153:1098-1104.
37. Woskie SR, Virji MA, Kriebel D, Sama SR, Eberiel D, Milton DK, Hammond SK, Moure-Eraso R. Exposure assessment for a field investigation of the acute respiratory effects of metalworking fluids. I. Summary of findings. *Am Ind Hyg Assoc J* 1996; 57: 1154-1162.
38. Corbo GM, Agabiti N, Forastiere F, Dell'Orco V, Pistelli R, Kriebel D, Pacifici R, Zuccaro P, Ciappi G, Perucci CA. Lung function in children and adolescents with occasional exposure to environmental tobacco smoke. *Am J Respir Crit Care Med* 1996;154(3 Pt 1):695-700.
39. Kriebel D, Sama SR, Woskie S, Christiani DC, Eisen EA, Hammond SR, Milton DK, Smith M, Virji MA. A field investigation of the acute respiratory effects of metal working fluids. I: effects of aerosol exposures. *Am J Industrial Medicine* 1997; 31:756-766.
40. Sama SR, Kriebel D, Woskie S, Eisen EA, Wegman DH, Virji MA. A field investigation of the acute respiratory effects of metal working fluids. II: Effects of airborne sulfur exposures. *Am J Industrial Medicine* 1997;31:767-776.
41. Wenzl TB, Kriebel D, Eisen EA, Tolbert P, Hallock M. Magnetic field exposure in an automobile transmission plant. *Archives of Environmental Health*, 1997; 52:227-232.
42. Greaves IA, Eisen EA, Smith TJ, Pothier LJ, Kriebel D, Woskie SR, Kennedy SM, Shalat S, Moonson RR. Respiratory health of automobile workers exposed to metal-working fluid aerosols: respiratory symptoms. *Am J Ind Med.* 1997; 32:450-459.
43. Sullivan PA, Eisen EA, Woskie SR, Kriebel D, Wegman DH, Hallock MF, Hammond SK, Tolbert PE, Smith TJ, Monson RR. Mortality studies of metalworking fluid exposure in the automobile industry: VI. A case-control study of esophageal cancer. *Am J Ind Med.* 1998;34:36-48.
44. Quinn MM, Kriebel D, Geiser K, Moure-Eraso R. Sustainable production: a new strategy for the work environment. *Am J Ind Med*, 1998; 34:297-304
45. Thompson ML, Myers JE, Kriebel D. The prevalence odds ratio or prevalence ratio in the analysis of cross-sectional data: what is to be done? *Occup Environ Med.* 1998; 55:272-277.

46. Woskie SR, Eisen EA, Wegman DH, Hu X, Kriebel D. Worker sensitivity and reactivity: indicators of worker susceptibility to nasal irritation. *Am J Ind Med*, 1998; 34:614-622.
47. Loomis D, Salvan A, Kromhout H, Kriebel D. Selecting indices of occupational exposure for epidemiologic studies. *Occupational Hygiene*, 1999; 5:73 - 91.
48. Dodic-Fikfak M, Clapp R, Kriebel D. The health risks of decommissioning nuclear facilities. *New Solut.* 1999; 9(2):153-61.
49. Seniori Costantini A, Miligi L, Kriebel D, Ramazzotti V, Scarpi E, Stagnaro E, Tumino R, Fontana A, Masala G, Vigano' C, Vindigni C, Crosignani P, Benvenuti A, Vineis P. A multicenter case-control study in Italy on hematolymphopoietic neoplasms and occupation. *Epidemiology* 2001; 12:78-87.
50. Kriebel D, Myers D, Chen MC, Woskie S, Cocanour B. Short-term effects of formaldehyde on peak expiratory flow and irritant symptoms. *Archives Environ Health* 2001; 56:11-18.
51. Kriebel D. Describing community health risks: can epidemiology be improved? *New Solutions* 2001; 11:13-21.
52. Kriebel D, Tickner J, Epstein P, Lemons J, Levins R, Loechler EL, Quinn MM, Rudel R, Schettler T, Stoto M. The precautionary principle in environmental science. *Environmental Health Perspectives* 2001; 109:871-876.
53. Kriebel D, Tickner J. Reenergizing public health through precaution. *American Journal of Public Health* 2001; 91:1351-1355.
54. Kriebel D, Rosenberg BJ. Lung cancer: another good reason to control silica. *Cancer Causes and Control* 2001; 12:785-787.
55. Eisen EA, Smith TJ, Kriebel D, Woskie SR, Myers DJ, Kennedy SM, Shalat S, Monson RR. Respiratory health of automobile workers and exposures to metal-working fluid aerosols: lung spirometry. *Am J Ind Med.* 2001 May;39(5):443-53.
56. Zeka A, Kriebel D, Kennedy SM, Wegman DH. The role of underlying pulmonary obstruction in short-term airway response to metal working fluid exposure: a reanalysis. *American Journal of Industrial Medicine* 2003; 43:286-290.
57. Tickner JA, Kriebel D, Wright S. A compass for health: rethinking precaution and its role in science and public health. *International J Epi* 2003; 32:489-492.
58. Krieger N, Northridge M, Gruskin S, Quinn M, Kriebel D, Davey Smith G, Bassett M, Rehkopf DH, Miller C, and the HIA "promise and pitfalls" conference group. Assessing health impact assessment: multidisciplinary and international

- perspectives. *Journal of Epidemiology and Community Health* 2003; 57:659-662.
59. Hemmingsson T, Kriebel D, Lundberg I. Smoking at age 18-20 and suicide during 26 years of follow-up – how can the association be explained? *International Journal of Epidemiology* 2003; 32: 1000–1005.
  60. Zeka A, Gore R, Kriebel D. Effects of Alcohol and Tobacco on Aerodigestive Cancer Risks: A Meta-regression Analysis. *Cancer Causes and Control* 2003; 14:897-906.
  61. Zeka A, Eisen EA, Kriebel D, Gore R, Wegman D. Risk of upper aerodigestive tract cancers in a case-cohort of auto workers and exposures to metalworking fluids. *Occupational & Environmental Medicine* 2004; 61:426-431.
  62. Kriebel D, Zeka A, Eisen EA, Wegman D. Quantitative Evaluation of the Effects of Uncontrolled Confounding by Alcohol and Tobacco in Occupational Cancer Studies. *International Journal of Epidemiology* 2004; 33:1-6.
  63. Wallace RF, Kriebel D, Punnett L, Wegman DH, Wenger CB, Gardner JW, Gonzalez RR. The effects of continuous hot weather training on risk of exertional heat illness. *Medicine and Science in Sports and Exercise* 2005; 37:84-90.
  64. Thompson D, Kriebel D, Quinn MM, Wegman DH, Eisen EA. Occupational exposure to metalworking fluids and risk of breast cancer among female autoworkers. *Am J Ind Med* 2005; 47:153-60.
  65. Agalliu I, Eisen EA, Kriebel D, Quinn MM, Wegman DH. A biological approach to characterizing risk of prostate cancer and exposure to metalworking fluids. *Cancer Causes Control* 2005; 16: 323 – 331.
  66. Agalliu I, Eisen EA, Kriebel D, Quinn MM, Wegman DH. Prostate cancer incidence in relation to time windows of exposure to metalworking fluids in the automobile industry. *Epidemiology* 2005; 16: 664 – 671.
  67. da Silva MC, Fassa AG, Siqueira CE, Kriebel D. World at work: Brazilian ragpickers. *Occupational and Environmental Medicine* 2005; 62: 736-740.
  68. Myers D, Kriebel D, Karasek R, Punnett L, Wegman D. Injuries and assaults in a long-term psychiatric care facility. *Am Assoc Occ Health Nursing J* 2005; 53: 489-498.
  69. Bardin JA, Gore RJ, Wegman DH, Kriebel D, Woskie SR, Eisen EA. Registry-based case-control studies of liver cancer and cancers of the biliary tract nested in a cohort of autoworkers exposed to metalworking fluids. *Scand J Work Environ Health* 2005; 31:205-211.
  70. da Silva MC, Fassa AG, Kriebel D. Musculoskeletal Pain among Ragpickers in a

Southern City in Brazil. *Am J Ind Med.* 2006 Mar 28; 49(5):327-336.

71. Wallace RF, Kriebel D, Punnett L, Wegman DH, Wenger CB, Gardner JW, Kark JA. Risk Factors for Exertional Heat Illness by Gender and Training Period. *Aviation, Space, and Environmental Medicine* 2006; 77(4): 415-421.
72. da Silva MC, Fassa AG, Kriebel D. Minor psychiatric disorders among Brazilian ragpickers: a cross-sectional study. *Environmental Health, A Global Access Science Source* 2006; 5:17.
73. Clapp R, Hoppin P, Kriebel D. Erosion of the integrity of public health science in the USA. *Occupational & Environmental Medicine* 2006; 63:367-68.
74. Vineis P, Kriebel D. Causal models in epidemiology: past inheritance and genetic future. *Environmental Health: A Global Access Science Source* 2006; 5: 21.
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#### BOOKS AND CHAPTERS

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6. Kriebel D, Geiser K, Crumbley C. The Lowell Center for Sustainable Production: integrating environment and health into regional economic development. In: Approaches to Sustainable Development, R Forrant, ed. Amherst MA: University of Massachusetts Press, 2001.
7. Checkoway H, Pearce N, Kriebel D. Research Methods in Occupational Epidemiology. Oxford: Oxford University Press, 2<sup>d</sup> edition, 2004.
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9. Kriebel D, Tickner J, Epstein P, Lemons J, Levins R, Loechler EL, Quinn MM, Rudel R, Schettler T, Stoto M. The precautionary principle in environmental science. In: Martuzzi M, Tickner J, eds. The precautionary principle: protecting public health, the environment and the future of our children. Copenhagen: WHO Regional Office for Europe, 2004.
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ABSTRACTS, PRELIMINARY COMMUNICATIONS, TECHNICAL REPORTS

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2. Kriebel D. Calculations of energy use and cost in a national program investing \$100 billion in solar heating systems. Center for the Biology of Natural Systems, Washington University, St. Louis, 1976.
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9. Kriebel D. and Sprince N. Long-term beryllium exposure and non-malignant respiratory disease: preliminary results of a cross-sectional study. Presented at the Cleveland Clinic Foundation Workshop on Chronic Beryllium Disease. Cleveland, May 1986.
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16. Kriebel D. On beyond job title: improved exposure assessment in occupational epidemiology, presented at the Society for Epidemiologic Research annual meeting, Snow Bird Utah, 14 June, 1990.
17. Kriebel D, Sprince NL. The use of pharmacologic models to estimate tissue dose in epidemiologic studies relying on reconstruction of past exposure estimates: the case of beryllium, presented at the 23rd International Congress on Occupational Health, Montreal, 24 September, 1990.
18. Kriebel D. Improving the utility of quantitative exposure data in occupational epidemiology: the dosimetric model. *Revue d'epidemiologie et de sante' publique* 1992; 40(S1):S77.
19. Sama S, Kriebel D, Cocanour B. The short term irritant effects of formaldehyde in students dissecting cadavers. American Industrial Hygiene Conference, Boston, May 1992.
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21. Wenzl T, Kriebel D, Eisen E. Estimating worker exposure to power frequency magnetic fields in an auto plant. Presented at the Annual Review of Research on Biological Effects of Electric and Magnetic Fields from the Generation, Delivery and Use of Electricity. San Diego, November 1992.
22. Kriebel D. Cumulative exposure: conditions for its use as a robust estimator of exposure in occupational epidemiology. Presented at Third International Conference on Retrospective Assessment of Occupational Exposures in Epidemiology, Lyon, France. 13-15 April, 1994.

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24. Kriebel D. Comparing measures of exposure and measures of dose. Presented at the Eleventh International Symposium on Epidemiology in Occupational Health, Norwijdkerhout, the Netherlands, September, 1995.
25. Wegman DH, Kriebel D, Eisen EA, Dockery D. The impact of childhood asthma and related respiratory illnesses on future work experience -- examining the healthy worker effect. Presented at the Twelfth International Symposium on Epidemiology in Occupational Health, Harare, September, 1997.
26. Kriebel D, Geiser K. The Lowell Center for Sustainable Production: Integrating Environment and Health into Regional Economic Development. Presented at the First Annual Conference of the UMass Lowell Committee on Industrial Theory and Assessment, October, 1997.
27. Kriebel D, Mao CC, Myers DJ, Woskie S. Cumulative effects of repeated short term exposures to formaldehyde: a study of peak expiratory flow in a gross anatomy laboratory. Presented at the annual meeting of the American Thoracic Society, Chicago, April, 1998.
28. Kriebel D, Myers DJ, Woskie S. "Acclimatization" to formaldehyde: implications for the epidemiology of acute respiratory irritants. Presented at the Thirteenth International Symposium on Epidemiology in Occupational Health, Helsinki, September, 1998.
29. Kriebel D. Describing Community Health Risks: Can Epidemiology be Improved? 1999 University of Massachusetts Lowell Council on Industrial Theory and Assessment conference paper, October, 1999.
30. Sullivan P, Eisen E, Kriebel D, Woskie S, Wegman D. A nested case control study of stomach cancer mortality among automobile machinists exposed to metalworking fluid. [Abstract] *Ann Epidemiol.* 2000; 10:480-481.
31. Kriebel D, Tickner J, Crumbley C. Appropriate Science: Evaluating Environmental Risks for a Sustainable World. 2003 University of Massachusetts Lowell Council on Industrial Theory and Assessment conference paper, October 2003.
32. Kriebel D, Tickner J. Moving prevention upstream: epidemiology and precaution. [Abstract]. *Occupational & Environmental Medicine.* 61(11):e26, November 2004.
33. Quinn M, Sembajwe G, Stoddard A, Kriebel D, Hartman C, Krieger N, Sorensen G, Naishadham D, Barbeau E, Social Inequalities in the Burden of Occupational Exposures, Presented at the International Congress on Occupational Health (ICOH), Milano Italy, June 11- 16, 2006.

34. Quinn M, Sembajwe, Stoddard, Kriebel, Hartman, Krieger, Sorensen, Naishadham, Barbeau, Social Inequalities and Occupational Exposures, Presented at the American Public Health Association (APHA) Conference, Boston, MA, November 7, 2006.
35. Martuzzi M, Kriebel D. Limiting human exposure to uncertain risk factors. Presented at International Society for Environmental Epidemiology, Mexico City, August 2007.
36. Markkanen P, Chalupka S, Galligan C, Sama S, Gore R, Kim H, Bello A, Kriebel D, Quinn M, Survey methods and recruitment of a population of home healthcare providers, Presented at the American Public Health Association Conference, Washington, D.C. November 6, 2007.
37. Quinn M, Markkanen P, Galligan C, Chalupka S, Kim H, Sama S, Gore R, Kriebel D, Bello A, Davis L, Laramie A, Firsova N. Sharps Injuries and Blood Exposures Among Home Health Care Providers. Presented at the International Congress on Occupational Health (ICOH), Epidemiology Conference (EpiCOH), Banff, Alberta, Canada. October 9-12, 2007.
38. Cifuentes M, Sembajwe G, Tak SW, Gore R, Kriebel D, Punnett L . "Country Economic Indicators and Major Depressive Episode by Occupational Position" at the Work, Stress, and Health Conference 2008 in Washington DC.
39. Quinn MM, Markkanen PK, Galligan C, Chalupka S, Kim H, Gore R, Sama S, Kriebel D, Laramie AK, Davis L. Risk of sharps injuries and blood exposures among home health care workers. American Public Health Association Annual Meeting November 2008.
40. Kriebel D. Biologically-based Models in Exposure Assessment and Epidemiology. American Industrial Hygiene Association Conference, May 2008.

#### INVITED LECTURES

1. Design issues in a morbidity study of beryllium workers--use of animal data to determine appropriate modeling of exposure, lecture for the National Institute for Occupational Safety and Health, Cincinnati, May 1985.
2. with Quinn M. Asbestos exposure in the reprocessed textile industry in Prato, Italy lecture for the Environmental Sciences Laboratory, Mt. Sinai School of Medicine, New York, August, 1985.
3. Physiological models in epidemiology [in Italian], a lecture for the Biomedical sciences and human oncology research group, University of Turin, July 1988.
4. Epidemiologic models incorporating physiologic mechanisms, a lecture for the School of Occupational Health, McGill University, February, 1989.

5. Modeling lung irritant responses, a lecture to the Occupational Medicine Program, University of Massachusetts Medical Center, April 1989.
6. Comments on some epidemiologic aspects of cases involving exposure to toxic chemicals, lecture for a conference on risk assessment for Maine physicians and lawyers, October 1989.
7. Rapid-onset respiratory pathologies: the possibilities for studies in apprentices [in Italian], a lecture to the Occupational Medicine Services of the Italian National Health Service, Province of Florence, 3 May, 1990.
8. Nonlinear dynamics in models of acute respiratory irritants, a lecture for the Boston Risk Assessment Group/Society for Risk Assessment, 12 April 1990.
9. Formaldehyde exposures and irritant responses in students dissecting cadavers. Yale School of Medicine, January 1992.
10. The dosimetric model in epidemiology. Yale School of Medicine, January, 1992.
11. New methods in the application of quantitative exposure data in occupational epidemiology [in Italian]. Epidemiologic Observatory of the Region of Lazio, Rome Italy, June, 1994.
12. Cumulative exposure: conditions for its use as a robust estimator of exposure in occupational epidemiology. Presented at National Institute for Occupational Safety and Health, Cincinnati, September 1994.
13. Industrial Hygiene Assessment of Beryllium Exposed Workers. Invited panel discussant. Conference on Beryllium Related Diseases. National Institute of Environmental Health Sciences. Research Triangle Park NC, November 1994.
14. Acute reversible effects of formaldehyde exposure. Yale School of Medicine, October, 1997.
15. Precautionary Epidemiology. Conference on Genetic Engineering, Science and Environmental Health Network. Amherst, MA June 1999.
16. After War: the Role of Epidemiology. 25<sup>th</sup> annual meeting of the Italian Epidemiology Association, Venice, October 2001.
17. Epidemiologic Evidence and Causal Inference in Occupational Disease Causation. Yale School of Medicine, October, 2002.
18. Occupational cancer epidemiology: a U.S. perspective [In Italian]. Prevention of Cancer Risks in the workplace. An Italian National Conference. Pisa, Italy February 2003.

19. Sustainable production [In Italian]. Presented at a meeting of Ambiente e Lavoro and the Italian trade union CGIL. Florence, Italy, February 2003.
20. Epidemiology Research Principles and Methods. One day course, with Harvey Checkoway and Neil Pearce. Melbourne, Australia October 17, 2004.
21. Reducing your family's risks. Gloucester, MA, Community Health Forum. March 30, 2005.
22. Precaution: what's epidemiology got to do with it? Invited lecture to the Epidemiology Department, University of North Carolina School of Public Health, February 2007.
23. Occupational Injury Surveillance: What is its role in a rapidly industrializing country? Harvard School of Public Health, April 2007.
24. How much evidence is enough? Conventions of causal inference. Invited paper at The Coronado Conference IV. Conventions in Science and the Law. Bretton Woods, NH, May 2007.
25. Precaution and Uncertainty: Cancer and the Environment. Invited presentation to the American Cancer Society, Atlanta, January 2008.