

Curriculum Vitae

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EDUCATION AND TRAINING

1969-73	University of Pittsburgh Pittsburgh, Pennsylvania	B.S. (Honors)	Mathematics 1973
1973-74	University of Pittsburgh Graduate School of Public Health	M.S. (Hyg.)	Biostatistics 1974
1975-77	University of Pittsburgh Graduate School of Public Health	Ph.D.	Biostatistics 1977

APPOINTMENTS AND POSITIONS

1974-75	Wesley Institute Bethel Park, Pennsylvania	Mathematics Instructor
1977-78	University of Pittsburgh Graduate School of Public Health (GSPH)	Research Associate
1978-84	University of Pittsburgh, GSPH	Assistant Professor of Biostatistics
1981-83	University of Pittsburgh School of Health Related Professions	Adjunct Assistant Professor of Health Related Professions
1983-92	University of Pittsburgh Center for Environmental Epidemiology	Assistant Director
1984	University of Minnesota School of Public Health	Faculty, Graduate Summer Session in Epidemiology
1984-91	University of Pittsburgh, GSPH	Associate Professor of Biostatistics
1991-date	University of Pittsburgh, GSPH	Professor of Biostatistics
2008-date	University of Pittsburgh, GSPH	Director and Founder, Center for Occupational Biostatistics and Epidemiology
2007, 09-10	University of Pittsburgh, GSPH	Interim Chairman, Department of Biostatistics
2010-date	University of Pittsburgh, Center for Clinical and Translational Science	Professor of Clinical and Translational Science
2010-date	University of Pittsburgh, GSPH	Professor of Epidemiology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS AND SCIENTIFIC SOCIETIES

1974-date	American Statistical Association -Secretary, Vice President, President-Pittsburgh Chapter, 1979-82 -National Council Representative, 1981-1982
1974-date	Biometric Society
1978-date	Society for Occupational and Environmental Health -National Governing Council, 1986-1989
1979-date	Society for Epidemiological Research
1986-95	Pennsylvania Public Health Association -Member, Board of Directors, 1989-92
1988-date	International Society for Environmental Epidemiology
1996-date	International Commission on Occupational Health
1997-date	American College of Epidemiology - Fellowship, 1997
2001-2010	British Occupational Hygiene Society

HONORS and AWARDS

1973	B.S., Cum Laude
1981	Adolf G. Kammer Merit in Authorship Award - Best Publication in Field of Occupational Health, American Occupational Medical Association
1985	Delta Omega, Public Health Honorary Society
1986	Tenure, University of Pittsburgh, Department of Biostatistics
1994	Outstanding Teacher Award, Graduate School of Public Health
1997	Biographical Entry in <i>Who's Who in Science and Engineering</i>
1997	Fellowship, American College of Epidemiology
1999	50 at 50 Award, Graduate School of Public Health (selected as one of 50 outstanding contributors in field of public health in 50-year history of school)
2002	Biographical Entry in <i>Who's Who in Medicine and Healthcare</i>
2003	Biographical Entry in <i>2000 Outstanding Scientists of the 21st Century</i>
2004	Biographical Entry in <i>Who's Who in America</i>
2005	Biographical Entry in <i>Who's Who in American Education</i>

- 2006, 08, 09, University of Pittsburgh Innovator Award for development of OCMAP software package
13, 19
2017 Albert Nelson Marquis Lifetime Achievement Award, Marquis *Who's Who*
- 2019 Institute Technical Award 2020, International Institute of Synthetic Rubbers Producers (for
utmost technical contribution to synthetic rubber industry)

PUBLICATIONS

1. Articles

a. Published Refereed Articles

1. Cohen J and **Marsh GM**: Testing for the Communicability of Economic Ideas Via the Federal Reserve Bank, Reviews: A Learning Experiment. Journal of Economics Education 8:104-107, 1977.
2. **Marsh GM** and Enterline PE: A Method for Verifying the Completeness of Cohorts Used in Occupational Mortality Studies. Journal of Occupational Medicine 21:665-670, 1979.
3. **Marsh GM** and Preininger ME: OCMAP: A User-Oriented Occupational Cohort Mortality Analysis Program. American Statistician 34:245-246, 1980.
4. Enterline PE and **Marsh GM**: Mortality Studies of Smelter Workers. American Journal of Industrial Medicine 1:251-259, 1980.
5. Summers WK, Viesselman JO, and **Marsh GM**: The Use of THA in the Treatment of Alzheimer-Like Dementia. Biological Psychiatry 16:145-153, 1981.
6. Summers WK, Munoz R, Reed M, and **Marsh GM**: The Psychiatric Physical Examination: Findings in 75 Unselected Patients. Journal of Clinical Psychiatry 42:99-102, 1981.
7. Linn JG, Stuart JC, Warnicki JW, Sinclair RA, and **Marsh GM**: Endothelial Morphology in Long-Term Keratonconus Corneal Transplants. Ophthalmology 88:761-770, 1981.
8. Enterline PE and **Marsh GM**: Mortality among Nickel Workers in a Nickel Refinery and Manufacturing Plant in West Virginia. Journal of the National Cancer Institute 68:925-933, 1982.
9. **Marsh GM**: Computerized Approach to Verifying Study Population Data in Occupational Epidemiology. Journal of Occupational Medicine 24:596-601, 1982.
10. Enterline PE and **Marsh GM**: Missing Records in Occupational Disease Epidemiology. Journal of Occupational Medicine 24:677-680, 1982.
11. Enterline PE and **Marsh GM**: Cancer among Workers Exposed to Arsenic and other Substances in a Copper Smelter. American Journal of Epidemiology 116:895-911, 1982.
12. **Marsh GM**: Proportional Mortality Patterns among Chemical Plant Workers Exposed to Formaldehyde. British Journal of Industrial Medicine 39:313-322, 1982.
13. **Marsh GM**: Mortality among Workers from a Plastics Producing Plant: A Matched Case Control Study Nested Within a Cohort Study. Journal of Occupational Medicine 25:219-230, 1983.
14. John LR, **Marsh GM**, and Enterline PE: Evaluating Occupational Hazards Using Only Information Known to Employers: A Comparative Study. British Journal of Industrial Medicine 40:346-352, 1983.

15. Enterline PE, **Marsh GM**, and Esmen NA: Respiratory Disease among Workers Exposed to Mineral Fiber. American Review of Respiratory Disease 128:1-7, 1983.
16. **Marsh GM**: A Critical Review of Epidemiologic Studies Related to Ingested Asbestos. Environmental Health Perspectives 53:49-56, 1983.
17. Summers WK, **Marsh GM**, Chiong B, Bugoyne RM, Swenson SW, and Walker NR: The General Adult In-Patient Psychiatric Assessment Scale (GAIPAS). Psychiatry Research 10:217-236, 1983.
18. **Marsh GM**: Commentary: Additional Thoughts on the Review of Epidemiologic Studies Related to Ingested Asbestos. Environmental Health Perspectives 53:185-187, 1983.
19. Caplan RJ, **Marsh GM**, and Enterline PE: A Generalized Effective Exposure Modeling Program for Assessing Dose-Response in Epidemiologic Investigations. Computers and Biomedical Research 16:587-596, 1984.
20. Helmkamp J, Talbott E, and **Marsh GM**: Whole Body Vibration-A Critical Review. American Industrial Hygiene Association Journal 45:162-167, 1984.
21. Stehr PA, Gloninger MF, Kuller LH, **Marsh GM**, Radford EP, and Weinberg G: Vitamin A Deficiencies as a Predisposing Factor in the Development of Stomach Cancer. American Journal of Epidemiology 121:65-79, 1985.
22. Rao BR, **Marsh GM**, and Winwood J: Sidak-Type Simultaneous Prediction Intervals for the Measures $RSRR_i$ About the Corresponding $SePMR_i$ for Several Competing Risks of Death in an Epidemiologic Study. Journal of Statistical Planning and Inference 12:311-329, 1985.
23. Rao BR, **Marsh GM**, and Winwood J: Sidak-Type Simultaneous Confidence Intervals for the Measures $RSMR_i$ in Proportional Mortality Analyses Involving Competing Risks of Death. Communications in Statistics-Theory and Methods 15:515-536, 1986.
24. **Marsh GM**, Ehland J, Paik M, Preininger M, Caplan R: OCMAP/PC: A User Oriented Cohort Mortality Analysis Program for the IBM PC. The American Statistician 40:308-309, 1986.
25. Summers WK, Majowski LJ, **Marsh GM**, Tachiki K, and Kling A: Use of Oral THA in Long-Term Treatment of Senile Dementia, Alzheimer's Type. New England Journal of Medicine 315:1241-1245, 1986.
26. **Marsh GM**, Winwood J, and Rao BR: Prediction of the Standardized Risk Ratio Via Proportional Mortality Analysis. Biometrical Journal 29:355-368, 1987.
27. Enterline PE, Henderson VL, and **Marsh GM**: Exposure to Arsenic and Respiratory Cancer: A Re-Analysis. American Journal of Epidemiology 125:929-938, 1987.
28. **Marsh GM**: A Strategy for Merging and Analyzing Work History Data in Industry-wide Occupational Epidemiology Studies. American Industrial Hygiene Association Journal 48:414-419, 1987.
29. Rao BR, **Marsh GM**: Approximate Methodologies for Proportional Mortality Analyses in Epidemiologic Studies Involving Competing Risks of Death Regardless of Their Covariance Structure. Biometrical Journal 29:525-540, 1987.
30. Enterline PE, **Marsh GM**, Esmen NA, Henderson VL, Callahan C, and Paik M: Some Effects of Cigarette Smoking, Arsenic, and SO_2 on Mortality among U.S. Copper Smelter Workers. Journal of Occupational Medicine 29:831-838, 1987.

31. Enterline PE, **Marsh GM**, Henderson V, and Callahan C: Mortality Update of a Cohort of U.S. Man-Made Mineral Fiber Workers. The Annals of Occupational Hygiene 31:625-656, 1987.
32. Rao BR and **Marsh GM**: Approximate Simultaneous Inferential Procedures for Overall Risk Assessment of Several Competing Risk Factors in Biomedical and Epidemiologic Studies. Journal of Statistical Inference and Planning 18:323-344, 1988.
33. **Marsh GM**, Sachs DPL, Callahan C, Leviton LC, Ricci E, and Henderson V: Direct Methods of Obtaining Information on Tobacco Use in Occupational Studies. American Journal of Industrial Medicine 13:71-104, 1988.
34. Rao BR and **Marsh GM**: Approximate Variance Formulas and Asymptotic Joint Sampling Distribution of Standardized Risk Ratios in the Presence of Competing Risks in Cohort Studies. Communications in Statistics-Theory and Methods 17:745-777, 1988.
35. **Marsh GM**, Costantino JP, Lyons EE, Logue JN, and Fox JM: Health Effects of Exposure to the Drake Chemical Company Superfund Site: Morbidity Patterns among Former Employees. Journal of Environmental Health 50:389-394, 1988.
36. Summers WK, Kobhler AL, **Marsh GM**, Tachiki R, Kling A: Long Term Hepatotoxicity of Tetrahydroaminoacridine. Lancet 8640, April 1:729, 1989.
37. Rao BR, **Marsh GM**, and Winwood J: Asymptotic Interval Estimation of Some Cause-Specific Mortality Risk Measures in Epidemiologic Studies. Biometrical Journal 31:461-475, 1989.
38. Collins JJ, Swaen G, **Marsh GM**, Utidjian HMD, Caporossi JC, Saipher JN, et al: Mortality Patterns among Workers Exposed to Acrylamide. Journal of Occupational Medicine 30:614-617, 1989.
39. **Marsh GM**, Co-Chien H, Rao BR, and Ehland J: OCMAP: Module 6 - A New Computing Algorithm for Proportional Mortality Analysis. American Statistician 43:127-128, 1989.
40. Lilienfeld DE, Chan E, Ehland J, Godbold J, Landrigan PJ, Letz R, **Marsh GM**, Perl DP: Increasing Mortality from Motor Neuron Disease. Lancet 8640, April 1:710-713, 1989.
41. Mazumdar S, Redmond CK, Enterline PE, **Marsh GM**, Costantino JP, Zhou SY, Patwardhan RN: Multistage Modeling of Lung Cancer Mortality among Arsenic Exposed Copper Smelter Workers. Risk Analysis 9:551-563, 1989.
42. Rao BR and **Marsh GM**: Simultaneous Statistical Inference Concerning the SMR's of Several Strata in an Epidemiologic Study. Biometrical Journal 32:107-123, 1990.
43. **Marsh GM**, Enterline PE, Stone RA, Henderson VL: Mortality among a Cohort of U.S. Man-Made Mineral Fiber Workers: 1985 Follow-Up. Journal of Occupational Medicine 32:594-604, 1990.
44. Enterline PE, Henderson V, and **Marsh GM**: Mortality among Workers Potentially Exposed to Epichlorohydrin. British Journal of Industrial Medicine 47:269-276, 1990.
45. Summers WK, Kobhler AL, **Marsh GM**, Tachiki R, Kling A: Comparison of Seven Psychometric Instruments Used for Evaluation of Treatment Effect in Alzheimers Patients. Neuroepidemiology 9:193-207, 1990.
46. Lilienfeld DE, Chan E, Ehland J, Godbold J, **Marsh GM**, Landrigan PJ, and Perl DP: Two Decades of Increasing Mortality from Parkinson's Disease among the United States Elderly. Archives of Neurology 47:731-734, 1990.

47. **Marsh GM**, Callahan C, Pavlock D, Leviton LC, Talbott E, Hemstreet G: A Protocol for Bladder Cancer Screening and Medical Surveillance among High Risk Groups: The Drake Health Registry Experience. Journal of Occupational Medicine 32:881-886, 1990.
48. Lilienfeld DE, Sekkor D, Simpson S, Perl DP, Ehland J, **Marsh GM**, Chan E, Godbold JH, Landrigan PJ: Parkinsonism Death Rates by Race, Sex and Geography. A 1980's Update. Neuroepidemiology 9:243-247, 1990.
49. Collins JJ, Swaen GMH, **Marsh GM**, Hofsteenge E, von Bedaf A: Mortality among Workers Exposed to Acrylamide. Tijdschrift voor toegepaste Arbowetenschap 3:54-58, 1990.
50. **Marsh GM**, Leviton LC, Talbott E, Callahan C, Pavlock D, Hemstreet G, Logue JN, Fox J, Schulte, P: The Drake Chemical Workers Health Registry Study: I. Notification and Medical Surveillance of a Group of Workers at High Risk of Developing Bladder Cancer. American Journal of Industrial Medicine 19:291-302, 1991.
51. Leviton LC, **Marsh GM**, Talbott E, Callahan C, et al: The Drake Chemical Workers Health Registry Study: II. Coping with Community Tension in Health Protection. American Journal of Public Health 81:689-693, 1991.
52. Lilienfeld DE, Chan E, Ehland J, Godbold J, Landrigan PJ, **Marsh GM**: Mortality from Pulmonary Embolism in the United States: 1962-1984. Chest 47:731-734, 1991.
53. **Marsh GM**, Enterline PE, and McCraw D: Mortality Patterns among a Cohort of Petroleum Refinery and Petrochemical Plant Workers. American Journal of Industrial Medicine 19:29-42, 1991.
54. **Marsh GM**, Day R: A Model Standardized Risk Assessment Protocol for Use with Hazardous Waste Sites. Environmental Health Perspectives 90:199-208, 1991.
55. Day R, Talbott EO, **Marsh GM**, Case B: A Comparative Ecologic Study of Selected Cancers in Kanawha County, WV. American Journal of Industrial Medicine 21:235-251, 1992.
56. Rao BR, Day R, **Marsh GM**: Estimation of Relative Risks from Individual and Ecological Correlation Studies. Communications in Statistics-Theory and Methods 21:241-268, 1992.
57. **Marsh GM**, Stone RA, Henderson V: A Reanalysis of the National Cancer Institute Study on Mortality among Industrial Workers Exposed to Formaldehyde. Journal of Occupational Medicine 34:42-44, 1992.
58. Talbott EO, Day RD, **Marsh GM**, Haile-Cattledge GT, McKenna M, Case BW: Trends in Cancer Mortality in Kanawha County, West Virginia, 1950-1984. Science of the Total Environment 127:139-154, 1992.
59. **Marsh GM**, Stone RA, Henderson V: Lung Cancer Mortality among Industrial Workers Exposed to Formaldehyde: A Poisson Regression Analysis of the National Cancer Institute Study. American Industrial Hygiene Association Journal 53:681-691, 1992.
60. Leviton LC, Chen HT, **Marsh GM**, Talbott EO: Evaluation Issues in the Drake Chemical Workers Notification and Health Registry Study. American Journal of Industrial Medicine 23:197-204, 1993.
61. **Marsh GM**, Stone RA, Esmen NA, Henderson VL: Mortality Patterns among Chemical Plant Workers Exposed to Formaldehyde and Other Substances. Journal of the National Cancer Institute 86:384-385, 1994.

62. Stone RA, **Marsh GM**, Henderson VL, Owens AD, Smith TJ: Statistical Power to Detect Occupationally Related Respiratory Cancer in a Cohort of Female Employees in the U.S. MMVF Industry. Journal of Occupational Medicine 36:899-901, 1994.
63. Craun GF, Bull RJ, Clark RM, Doull J, Grabow W, **Marsh GM**, Okun DA, Regli S, Sobsey MD, Symons JM: Balancing Chemical and Microbial Risks of Drinking Water Disinfection. Part I, Benefits and Potential Risks. AQUA 43:192-199, 1994.
64. Craun GF, Bull RJ, Clark RM, Doull J, Grabow W, **Marsh GM**, Okun DA, Regli S, Sobsey MD, Symons JM: Balancing Chemical and Microbial Risks of Drinking Water Disinfection. Part II, Strategies to Manage Risk. Aqua 43:207-218, 1994.
65. Enterline PE, Day RD, **Marsh GM**: Cancers Related to Arsenic Exposure at a Copper Smelter. Occupational and Environmental Medicine 52:28-32, 1995.
66. Stone RA, **Marsh GM**, Youk AO, Quinn M: Statistical Estimation of Exposures to Fibers for Which No Direct Measurements are Available. Occupational Hygiene 3:91-101, 1996.
67. **Marsh GM**, Stone RA, Youk AO, Smith TS, Quinn MM, Henderson VL, Schall LC, Wayne LA, Lee KY: Mortality among United States Rock Wool and Slag Wool Workers: 1989 Update. Journal of Occupational Health and Safety - Australia and New Zealand 12(3):297-312, 1996.
68. **Marsh GM**, Stone RA, Esmen NA, Henderson VH, Lee KY: Mortality Patterns among Chemical Workers in a Factory Where Formaldehyde Was Used. Occupational and Environmental Medicine 53:613-617, 1996.
69. Esmen NA, **Marsh GM**: Applications and Limitations of Air Dispersion Modeling in Environmental Epidemiology. Journal of Exposure Analysis and Environmental Epidemiology 6:339-353, 1996.
70. Massoudi BL, Talbott EO, Day RD, Swerdlow SH, **Marsh GM**, Kuller LH: A Case-Control Study of Hematopoietic and Lymphoid Neoplasms: The Role of Work In the Chemical Industry. American Journal of Industrial Medicine 31:21-27, 1997.
71. Esmen NA, **Marsh GM**, Stone RA, Gula MJ, Gause CK: Quantifying Individual Residential Exposure to Smelter Emissions in Four Arizona Copper Smelting Communities: Exposure Estimation Procedures and Results. Toxicology and Industrial Health 13:247-258, 1997.
72. Schall LS, **Marsh GM**, Henderson VL: A Two-Stage Protocol for Verifying Vital Status in Large Historical Cohort Studies. Journal of Occupational and Environmental Medicine 39:1097-1102, 1997.
73. **Marsh GM**, Stone RA, Esmen NA, Gula MJ, Gause CK, Petersen NJ, Meaney FJ, Rodney S, Prybylski D: A Case-Control Study of Lung Cancer Mortality in Six Gila Basin, Arizona Smelter Towns. Environmental Research 75:56-72, 1997.
74. **Marsh GM**, Stone RA, Esmen NA, Gula MJ, Gause CK, Petersen NJ, Meaney FJ, Rodney S, Prybylski D: A Case-Control Study of Lung Cancer Mortality in Four Rural Arizona Smelter Towns. Archives of Environmental Health 53:15-28, 1998.
75. **Marsh GM**, Youk AO, Stone RA, Sefcik S, Alcorn C: OCMAP-PLUS, A New Program for the Comprehensive Analysis of Occupational Cohort Data. Journal of Occupational and Environmental Medicine 40:351-362, 1998.
76. Lear D, Schall LC, **Marsh GM**, Liu KS, Yao Y: Identification and Case Management of Patients at Risk of Preterm Labor in an HMO. American Journal of Managed Care 4:865-871, 1998.

77. Jain AB, Yee LD, Nalesnik M, Youk AO, **Marsh GM**, Reyes J, Rakela J, Irish W, Fung JJ: *De Novo* Non-Lymphoid Malignancies Following Liver Transplantation Under Tacrolimus. Transplantation, 66:1193-1200, 1998.
78. **Marsh GM**, Lucas L, Youk AO, Schall LC: Mortality Patterns among Workers Exposed to Acrylamide: 1994 Follow-Up. Occupational and Environmental Medicine, 56:181-190, 1999.
79. Esmen NA, Hall TA, Stone RA, **Marsh GM**, Gula MJ, Gause CK: An Investigation of Secondary Exposure Misclassification Effects of Lifelong Occupational History in Exposure Estimation. American Industrial Hygiene Association Journal 60:175-181, 1999.
80. **Marsh GM**, Gula MJ, Youk AO, Schall LC: Mortality among Chemical Plant Workers Exposed to Acrylonitrile and Other Substances. American Journal of Industrial Medicine, 36:423-436, 1999.
81. Schall LC, Buchanich JM, **Marsh GM**, Bittner G: Utilizing Multiple Vital Status Tracing Services Optimizes Mortality Follow-Up in Large Cohort Studies. Annals of Epidemiology , 11:292-296, 2001.
82. **Marsh GM**, Youk AO, Collins J: A Reevaluation of Lung Cancer Risk in the NCI/NIOSH Acrylonitrile Cohort Study. Scandinavian Journal of Work, Environment and Health 27:5-13, 2001.
83. **Marsh GM**, Youk AO, Stone RA, Buchanich JM, Gula MJ, Smith TJ, Quinn MM: Historical Cohort Study of U.S. Man-Made Vitreous Fiber Production Workers. I. 1992 Fiber Glass Cohort Follow-Up-Initial Findings. Journal of Occupational and Environmental Medicine 43:741-756, 2001.
84. **Marsh GM**, Gula MJ, Youk AO, Buchanich JM, Churg A, Colby TV: Historical Cohort Study of U.S. Man-Made Vitreous Fiber Production Workers. II. Mortality from Mesothelioma. Journal of Occupational and Environmental Medicine 43:757-766, 2001.
85. Youk AO, **Marsh GM**, Stone RA, Buchanich JM, Smith TJ: Historical Cohort Study of U.S. Man-Made Vitreous Fiber Production Workers. III. Analysis of Exposure-Weighted Measures of Respirable Fibers and Formaldehyde in the Nested Case-Control Study of Respiratory System Cancer. Journal of Occupational and Environmental Medicine 43:767-778, 2001.
86. Stone RA, Youk AO, **Marsh GM**, Buchanich JM, McHenry MB, Smith TJ: Historical Cohort Study of U.S. Man-Made Vitreous Fiber Production Workers. IV. Quantitative Exposure-Response Analysis of the Nested Case-Control Study of Respiratory System Cancer. Journal of Occupational and Environmental Medicine 43:779-792, 2001.
87. Buchanich JM, **Marsh GM**, Youk AO: Historical Cohort Study of U.S. Man-Made Vitreous Fiber Production Workers. V. Tobacco Smoking Habits. Journal of Occupational and Environmental Medicine 43:793-802, 2001.
88. **Marsh GM**, Buchanich JM, Youk AO: Historical Cohort Study of U.S. Man-Made Vitreous Fiber Production Workers. VI. Respiratory System Cancer SMRs Adjusted for the Confounding Effect of Cigarette Smoking. Journal of Occupational and Environmental Medicine 43:803-808, 2001.
89. Smith TJ, Quinn MM, **Marsh GM**, Youk AO, Stone RA, Buchanich JM, Gula MJ: Historical Cohort Study of U.S. Man-Made Vitreous Fiber Production Workers. VII. Overview of the Exposure Assessment. Journal of Occupational and Environmental Medicine 43:809-823, 2001.
90. Quinn MM, Smith TJ, Youk AO, **Marsh GM**, Stone, RA, Buchanich JM, Gula MJ: Historical Cohort Study of U.S. Man-Made Vitreous Fiber Glass Production Workers VIII. Exposure-Specific Job Analysis. Journal of Occupational and Environmental Medicine 43:824-834, 2001.

91. Schall LC, **Marsh GM**, Holleran MK, Ruhl LS: Methodology to Improve Data Quality from Chart Review in the Managed Care Setting. American Journal of Managed Care 8:787-793, 2002.
92. **Marsh GM**, Youk AO, Stone RA, Buchanich JM, Gula MJ, Smith TJ, Churg A, Colby T: Does Fiber Glass Pose a Respiratory Cancer Risk in Man? Findings from the Latest Update of the U.S. Cohort Study of Man-Made Vitreous Fiber Workers. Annals of Occupational Hygiene 46(Supp.1): 110-114, 2002.
93. **Marsh GM**, Gula MJ, Youk AO, Cassidy LD: Bladder Cancer among Chemical Workers Exposed to Nitrogen Products and Other Substances. American Journal of Industrial Medicine 42:286-295, 2002.
94. **Marsh GM**, Youk AO, Buchanich JM, Cassidy LD, Lucas LJ, Esmen NA, Gathuru I. Pharyngeal Cancer Mortality among Chemical Plant Workers Exposed to Formaldehyde. Toxicology and Industrial Health, 18:257-268, 2003.
95. **Marsh GM**, Cassidy LD: The Drake Health Registry Study: Findings from Fifteen Years of Continuous Bladder Cancer Screening. American Journal of Industrial Medicine, 43:142-148, 2003.
96. Lin CJ, Lave JR, Chang CC, **Marsh GM**, LaValee CP, Jovanovic Z. Factors Associated with Medicaid Enrollment for Low-Income Children in the United States. Journal of Health and Social Policy, 16:35-51, 2003.
97. **Marsh GM**, Gula MJ, Roggli V, Churg A: The Role of Smoking and Asbestos Exposure in a Questionable Case of Mesothelioma. Industrial Health, 41:332-334, 2003.
98. Cassidy LD, Youk AO, **Marsh GM**. The Drake Health Registry Study: Cause-Specific Mortality among Workers with Probable Past Exposure to Beta-naphthylamine. American Journal of Industrial Medicine, 44:282-290, 2003.
99. Bloemen LJ, Youk AO, Bradley TD, Bodner KM, **Marsh GM**, Collins JJ: Lympho-Hematopoietic Cancer among Chemical Workers Exposed to Benzene. Occupational and Environmental Medicine, 61:270-274, 2004.
100. Youk AO, Stone RA, **Marsh GM**.: A Method for Imputing Missing Data in Longitudinal Studies. Annals of Epidemiology, 14:354-361, 2004.
101. Starr T, Gause C, Youk AO, Stone RA, **Marsh GM**, Collins JJ. A Risk Assessment for Occupational Exposure to Acrylonitrile Using Epidemiology Data, Risk Analysis, 24:587-601, 2004.
102. Stone RA, Youk AO, **Marsh GM**, Buchanich JM, Smith TJ, Quinn MM.: Historical Cohort Study of U.S. Man-Made Vitreous Fiber Production Workers IX: Summary of 1992 Mortality Study Follow-Up and Analysis of Respiratory System Cancer among Female Workers, Journal of Occupational and Environmental Medicine, 46:55-67, 2004.
103. Dolan D, **Marsh GM**, Youk AO, Buchanich J. A 50-Year Retrospective Study of Workers Employed in a Pharmaceutical Company. Journal of Occupational and Environmental Medicine, 46:161-166, 2004.
104. **Marsh GM**, Youk AO. Reevaluation of Mortality Risks from Leukemia in the Formaldehyde Cohort Study of the National Cancer Institute. Regulatory Toxicology and Pharmacology, 40:113-124, 2004.
105. **Marsh GM**, Youk AO, Buchanich JM, Esmen NA. Mortality Patterns among Workers in a U.S. Pharmaceutical Production Plant. Annals of Epidemiology, 15:112-122, 2005.

106. Catov J, **Marsh GM**, Youk AO. Asthma Management Outcome Evaluation in a Medicaid Health Plan: How Do the Findings Change with an External Control Group. Disease Management, 8:178-187, 2005.
107. Buchanich JM, Dolan DG, **Marsh GM**, Madrigano J. Under-Ascertainment of Deaths Using Social Security Records: A Recommended Solution to a Little-Known Problem. American Journal of Epidemiology, 162:193-194, 2005.
108. Kirman CR, Gargas, ML, **Marsh GM**, Strother DE, Collins JJ, Deskin R. Reassessment of the Cancer Potency of Acrylonitrile for Human Health Risk Assessment Based Upon Rodent Brain Tumor Incidence: Use of Epidemiology, Mode of Action and Pharmacokinetic Data. Regulatory Toxicology and Pharmacology 43:85-103, 2005.
109. **Marsh GM**, Youk AO. Reevaluation of Mortality Risks from Nasopharyngeal Cancer in the Formaldehyde Cohort Study of the National Cancer Institute. Regulatory Toxicology and Pharmacology, 42:275-283, 2005.
110. **Marsh GM**, Gula MJ. Employment as a Welder and Parkinson's Disease among Heavy Equipment Manufacturing Workers. Journal of Occupational and Environmental Medicine, 48:1031-1045, 2006.
111. **Marsh GM**, Youk AO, Buchanich JM, Cunningham M, Esmen NA, Hall TA, Phillips ML. Mortality Patterns among Industrial Workers Exposed to Chloroprene and Other Substances: I. General Mortality Patterns. Chemico-Biological Interactions 166:285-300, 2007.
112. **Marsh GM**, Youk AO, Buchanich JM, Cunningham M, Esmen NA, Hall TA, Phillips ML. Mortality Patterns among Industrial Workers Exposed to Chloroprene and Other Substances: II. Mortality in Relation to Exposure. Chemico-Biological Interactions 166:301-316, 2007.
113. Esmen NA, Hall TA, Phillips ML, **Marsh GM**. Chemical Process Based Reconstruction of Exposures for an Epidemiology Study: I. Theoretical and Methodological Issues. Chemico-Biological Interactions 166:254-263, 2007.
114. Esmen NA, Hall TA, Phillips ML, Jones PE, Basara H, **Marsh GM**, Buchanich JM. Chemical Process Based Reconstruction of Exposures for an Epidemiology Study: II. Estimated Exposures to Chloroprene and Vinyl Chloride. Chemico-Biological Interactions 166:264-276, 2007.
115. Hall TA, Esmen NA, Jones PE, Basara H, Phillips ML, **Marsh GM**, Youk AO, Buchanich JM, Leonard R. Chemical Process Based Reconstruction of Exposures for an Epidemiological Study: III. Analysis of Industrial Hygiene Samples. Chemico-Biological Interactions 166:277-284, 2007.
116. Esmen NA, Kennedy KJ, Hall TA, Phillips ML, **Marsh GM** Classification of Worker Exposures Chemico-Biological Interactions 166:245-253, 2007.
117. Leonard RC, Lineker GA, Kreckmann KH, **Marsh GM**, Buchanich J, Youk A. Comparison of Standardized Mortality Ratios (SMRs) Obtained from Use of a Reference Population Based on Company-Wide Registry Cohort to SMRs Calculated against Local and National Rates. Chemico-Biological Interactions 166:317-322, 2007.
118. **Marsh GM**, Youk AO, Morfeld P. Mis-Specified and Non-Robust Mortality Risk Models for Nasopharyngeal Cancer in the National Cancer Institute Formaldehyde Worker Cohort Study. Regulatory Toxicology and Pharmacology 47:59-67, 2007.
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2. **Marsh GM**, Ierardi M. Confidence Interval Function Analysis to Evaluate The Risk of Mesothelioma Among an Expanded International Cohort of Cosmetic Talc Miners And Millers.
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5. **Marsh GM**, Buchanich J, Kruchten A. Update of the Historical Cohort Study of Chloroprene Production Workers in the US.
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2. **Books and Book Chapters**

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3. **Reviews, Invited Published Papers, Proceedings of Conferences and Symposia, Monographs and Letters**

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21. **Marsh GM**. EMF-ELF Exposure Potentials among Magnetic Particle Inspections Workers. Proceedings of the International Workshop to Evaluate Future Needs of Occupational ELF Epidemiology, Edinburgh, Scotland, September 14-15, 2006.
22. **Marsh GM**, Youk AO, Roggli VL: Letter to the Editor Regarding, Finkelstein et al. (2012). Inhalation Toxicology. 24: 141-142, 2012.
23. **Marsh, G.**, Benson S. Letter to the Editor Regarding, 'Pleural Mesothelioma and Occupational and Non-Occupational Asbestos Exposure: A Case-Control Study with Quantitative Risk Assessment' by Ferrante *et al.* Occupational and Environmental Medicine. 74:156-157, 2017.

24. Finley B, Benson S, **Marsh GM**. Response to Letter to the Editor Regarding, "Cosmetic Talc As a Risk Factor for Pleural Mesothelioma: a Weight of Evidence Evaluation of the Epidemiology and Updated Analysis". *Inhalation Toxicology*, <https://doi.org/10.1080/08958378.2018.1438540>, 2018.
25. **Marsh GM**, Riordan AS, Keeton KA, and Benson S. Response to: 'Reanalysis of non-occupational exposure to asbestos and the risk of pleural mesothelioma' by Finkelstein. *Occupational and Environmental Medicine*. Advance online publication, March 24, 2018. <https://doi.org/10.1136/oemed-2018-105020>, 2018.
26. **Marsh GM**, Towle K. Letter to the Editor: "Methodological Limitations to Cicalese et al. analysis: An Ecological Study of the Association between Air Pollution and Hepatocellular Carcinoma Incidence in Texas" *Liver Cancer*, Advance online publication, May 15, 2018. <https://doi.org/10.1159/000489022>, 2018.
27. **Marsh GM**, Bernal A, Egnot N, Kreider M. Letter to the Editor: "Comments on the measurement of lung cancer tumor markers in workers of a glass wool company. *International Journal Occupational Environmental Medicine* 9(3):157-158, 2018.
28. **Marsh GM**, Ierardi AM, Benson SM, Finley BL. Response to Letter to the Editor: "Occupational exposures to cosmetic talc and risk of mesothelioma: an updated pooled cohort and statistical power analysis with consideration of latency period. *Inhalation toxicology*, 31(6), 213-223. by Madigan D, Egilman D, Finkelstein M, Tran T, Yimam M. *Inhalation Toxicology* 2019 Dec 17:1-2. <https://doi:10.1080/08958378.2019.1702743>. [Epub ahead of print].

4. Published Abstracts

1. **Marsh GM**, Stone RA, Henderson V, Smith TJ, Hallock MF, Quinn MM: The Potential Impact of Exposure Misclassification and Confounding on the Lung Cancer Mortality Experience of U.S. Mineral Wool Fiber Workers. (Abstract) *Revue D'epidemiologie et de Sante Publique* 40:571, 1992.
2. **Marsh GM**, Smith TJ, Stone RA, Hallock MF, Quinn MM: L'Impact des Erreurs de Classification et des Facteurs Confusion sur la Mortalite des Travailleurs dans la Fabrication de Fibre de Verre Synthetique. *Archives des Maladies Professionnelles* 53:547, 1992.
3. Smith TJ, Quinn M, **Marsh GM**, Hallock MF: Extrapolation des Expositions Passees pour les Travailleurs de la Production de Laine de Verre: Une Approche Integree pour L'Epidemiologie. *Archives des Maladies Professionnelles* 53:552, 1992.
4. **Marsh GM**, Stone R, Owens AD, Henderson V, Smith T, Quinn M. A descriptive analysis of the new fiber and co-exposure data for the U.S. cohort study of man-made vitreous fiber production workers. The 24th International Congress on Occupational Health, Nice, France; 1993.
5. Stone RA, **Marsh GM**, Owens AD, Smith TJ, Quinn MM. Statistical estimation of fiber exposures assigned to unmeasured jobs. I.A.R.C. Conference on Retrospective Assessment of Occupational Exposures in Epidemiology, Lyon, France; 1994.
6. **Marsh GM**, Stone RA, Youk AO, Henderson VL, Smith TJ, Quinn MM. 1989 update of the U.S. cohort mortality study of rock and slag wool workers. Symposium on the Health Effects of Fibrous Materials Used in Industry, Sydney, Australia; 1995.

7. Stone RA, **Marsh GM**, Gula MJ, Esmen NA, Gause CK: Quantifying Individual-Level Lifetime Exposures to SO₂ Emissions in Gila River Basin Arizona Copper Smelter Communities. Epidemiology 6:S44, July 1995.
8. Stone RA, **Marsh GM**, Youk AO, Enterline PE: Modelling the Combined Effects of Exposure and Cigarette Smoking on Respiratory Cancer Risk for Copper Smelter Workers: Methodological Issues. Epidemiology 6:S114, July 1995.
9. Esmen NA, Stone RA, **Marsh GM**, Gula MJ: An Investigation of Secondary Exposure Misclassification Effects of Lifelong Occupational History in Exposure Estimation. Paper No. 325 American Industrial Hygiene Conference, Washington, D.C., May 1996 (extended abstract).
10. Rohay JM, **Marsh GM**, Sereika S, Mazumdar S, Dunbar-Jacob: The Effects of Aggregation on Medication Compliance History in Repeated Measures ANOVA: A Simulation Study. Controlled Clinical Trials 15 (suppl. 3) 98, 1994.
11. Youk AO, Stone RA, **Marsh GM**: Assessing a Method for Allocating Partially Classified Person-Time: A Simulation Study. Annals of Epidemiology 9:458, 1999.
12. Schall LC, **Marsh GM**, Buchanich JM, Bittner, G: A Comparison of Three National Vital Status Tracing Services for Large Scale. Annals of Epidemiology 9:457-458, 1999.
13. **Marsh GM**, YOUK AO, Stone RA, Buchanich JM, Gula MJ, Smith TJ, Churg A, Colby T. Does fiberglass pose a respiratory system cancer risk in humans? Latest findings from the US cohort and nested case-control studies. Annals of Occupational Hygiene, Inhaled Particles IX Supplement.
14. **Marsh GM**, Youk AO, Buchanich JM, Cassidy LD, Lucas LJ, Esmen NA, Gathuru I. Formaldehyde Exposure and Respiratory Tract Cancer among Chemical Plant Workers: An Updated Cohort Study and New Nested Case-Control Study. Annals of Occupational Hygiene 2003.
15. **Marsh GM**, Youk AO, Buchanich JM, Esmen NA. Mortality Patterns among Pharmaceutical Production Workers at One U.S. Site. Annals of Occupational Hygiene. 2004.
16. **Marsh GM**, Youk AO, Buchanich JM, Esmen NA. Mortality Patterns among Workers Exposed to Chloroprene and Other Substances. Annals of Occupational Hygiene 2005.
17. **Marsh GM**, Buchanich JM, Lieberman FS, Youk AO, Bornemann Z, Esmen NE, Lacey SE, Kennedy K, Hancock R. An epidemiological study of brain cancer mortality and incidence among a cohort of jet engine manufacturing workers. Society of Neuro-Oncology 2006 Meeting Proceedings.
18. **Marsh GM**, Buchanich JM, Lieberman FS, Youk AO, Bornemann Z, Esmen NE, Lacey SE, Kennedy K, Hancock R. An epidemiological study of brain cancer mortality and incidence among a cohort of jet engine manufacturing workers: Year 5 Study Update. Society of Neuro-Oncology 2007 Meeting Proceedings.
19. Esmen NA, Hancock RP, Lacey SE, Kennedy KJ, **Marsh GM**, Buchanich JM. Exposure to Aerosol Generated in High Temperature Alloy Surface Grinding. Annals of Occupational Hygiene 2007.
20. Lacey S, Horvatin S, Alcazar T, Kennedy K, Hancock R, Esmen N, Buchanich J, Youk A, Cunningham M, **Marsh GM**, Myers D. Examination of Worker Ability to Recall Personal Occupational History. Annals of Occupational Hygiene 2008.
21. Esmen NE, Kennedy KJ, **Marsh GM**, Buchanich JM. Exposure to lead and arsenic in copper smelting. Annals of Occupational Hygiene 2008

22. Lacey S, Kennedy K, Hancock R, Esmen N, Buchanich J, Youk A, Cunningham M, **Marsh GM**, Lieberman F. Exposure reconstruction to inform an epidemiologic study of brain cancer mortality among a cohort of jet engine manufacturing workers: an update on findings to date. Society of Neuro-Oncology 2008 Meeting Proceedings.
23. **Marsh GM**, Buchanich J, Youk A, Cunningham M, Lieberman F, Kennedy K, Lacey S, Hancock R, Esmen N. An epidemiological study of brain cancer mortality and incidence among a cohort of jet engine manufacturing workers: total and cause specific mortality with emphasis on CNS neoplasms. Society of Neuro-Oncology 2008 Meeting Proceedings.
24. Kennedy K, Esmen N, Buchanich J, Lacey S, **Marsh GM**, Youk A, Hancock R. Occupational hygiene considerations in a large retrospective epidemiology study: job dictionary. Annals of Occupational Hygiene 2009.
25. Lacey S, Gundi V, Kennedy K, Hancock R, Esmen N, Buchanich J, Youk A, **Marsh GM**. Application of GIS in occupational exposure reconstruction. Annals of Occupational Hygiene 2009.
26. Buchanich JM, **Marsh GM**, Esmen NA, Youk AO, Kennedy KJ. Cerebrovascular Mortality among Arsenic-Exposed Copper Smelter Workers. Annals of Occupational Hygiene 2009.
27. Esmen NA, Hall TA, Phillips ML, **Marsh GM**: Chemical Process Based Reconstruction of Exposures: Estimation of Task Based Exposures Method Selection, Annals of Occupational Hygiene, 2010.
28. Esmen NA, Broda TA, Hall TA, Phillips ML, **Marsh GM**: Chemical Process Based Reconstruction of Exposures: Estimation of Task Based Exposures. A Case Study. Annals of Occupational Hygiene, 2010.
29. Rohay J, **Marsh GM**, anderson S, Dunbar-Jacobs J, Arena V. Statistical Assessment of Medication Adherence Data: A Technique to Analyze the J-Shaped Curve. Abstract: 35th Annual Meeting of the Society for Clinical Trials, May 18-21, 2014, Philadelphia, PA.
29. Sharma RK, Talbott EO, **Marsh GM**, Brink L, Zborowski J. Spatial Data Analytic Tools for Linking Environmental Surveillance Data to Health Outcomes: Application to Data from a Local Health Department. American Journal of Public Health, 2010.
30. Youk AO, Buchanich JM, **Marsh GM**, Fryzek J. A Study of Cancer Mortality Rates in High Altitude Counties of the United States. Society for Epidemiological Research, Annual Meeting, 2010.
31. Summers W, Martin RL, Liu Y, **Marsh GM**. Memory Improvement in Aging Community Dwelling Seniors: A Single-Blinded Study of Two Antioxidant Supplements. Society for Neuroscience (www.sfn.org), Annual Meeting, November 15-19 ,2014, Washington, D.C.
32. Rohay J, **Marsh GM**, anderson S, Arena V, Youk A, Dunbar-Jacob J. A Statistical Assessment of Medication Adherence Data: A Technique to Analyze the J-Shaped Curve. Society for Clinical Trials Annual Meeting, May 18-21, 2014, Philadelphia, PA.
33. **Marsh GM**, Buchanich J, Zimmerman S, Kennedy K, Esmen N, Moshhammer H, Morfeld P, Erren T, Svartengren M, Westberg H, McElvenny D, Cherrie J. An International historical cohort study of workers in the hard-metal industry: mid-study epidemiology update. Occupational Environmental Medicine 2014 Jun;71 Suppl 1:A96-7. doi: 10.1136/oemed-2014-102362.302.
34. Kennedy K, Esmen N, **Marsh GM**, Buchanich J, Zimmerman S, Moshhammer H, Morfeld P, Erren T, Svartengren M, Westberg H, McElvenny D, Cherrie J. An international historical cohort study of workers in the hard-metal industry: exposure assessment. Occupational and Environmental Medicine 06/2014; 71 Suppl 1:A65. DOI: 10.1136/oemed-2014-102362.203.

35. Ma Q, Sereika S, **Marsh GM**, Burke L. When is the Ideal Time to Boost Dietary Self-Monitoring in the Prevention of Weight Regain? American Heart Association, Scientific Sessions, New Orleans, LA, November 12-16, 2016.
36. Summers WK, Martin RL, Yimeng L, Pena B, **Marsh GM**. Dementia, Memory Loss, and Antioxidant Therapy. Presented at VI th International Symposium: Interactions of the nervous and immune system in health and disease. Organizers: Institute of Experimental Medicine(Russia), Max Planck Institute (Germany), Pasteur Institute of Epidemiology and Microbiology (France). 20-23 June 2017.
37. Barlow C, **Marsh GM**, Benson S, Finley B. The Mineralogy and Epidemiology of Cosmetic Talc. Toxicology and Applied Pharmacology, Advance online publication, May 30, 2018. doi: 10.1016/j.taap.2018.05.036., 2018.

5. Other Publications

1. **Marsh GM**: Final Report on the Monsanto Company Indian Orchard Plant Mortality Study. Technical Report submitted to the Monsanto Company, December 21, 1979.
2. Enterline PE and **Marsh GM**: Mortality among Man-Made Mineral Fiber Workers in the United States. Technical Report submitted to the Thermal Insulation Manufacturers Association, May 15, 1981.
3. **Marsh GM**: Proportional Mortality among Chemical Workers Exposed to Formaldehyde. Technical Report submitted to the Monsanto Company, May 15, 1981.
4. **Marsh GM**: A Case-Control Study of Digestive System Cancer and Genito-Urinary System Cancer within a Cohort of Chemical Plant Workers. Technical Report submitted to the Monsanto Company, October 15, 1981.
5. **Marsh GM** and Preininger ME: OCMAP: Occupational Cohort Mortality Analysis Program-User Manual, Version September 1980. Copyright 1981, University of Pittsburgh, Pittsburgh, PA.
6. Enterline PE and **Marsh GM**: Mortality and Morbidity among Workers in a Nickel Refinery and Alloy Manufacturing Plant in Huntington, West Virginia. Technical Report submitted to Huntington Alloys, Inc. (INCO Limited), April 30, 1982.
7. **Marsh GM**, Costantino JP, and Lyons EE: Statistical Analysis of the Drake Superfund Site Occupational Health Survey. Technical Report submitted to the Pennsylvania Department of Health, Division of Environmental Epidemiology, September 30, 1985.
8. Enterline PE, **Marsh GM**, Esmen NA, Henderson V, and Ricci E: Mortality among Copper and Zinc Smelter Workers in the United States. Technical Report submitted to the Smelter Environmental Research Association, January 31, 1986.
9. **Marsh GM** and Enterline PE: The Deer Park Mortality Study. Mortality Patterns among a Cohort of Refinery and Chemical Plant Workers. Technical Report submitted to the Shell Oil Company, July 31, 1987.
10. **Marsh GM**, Leviton LC, Talbott EO, Callahan C and LaValley M: Health Registry and Epidemiologic Study of Former Drake (Kilsdonk) Chemical Company Workers. Annual Technical Reports submitted to the Pennsylvania Department of Health, Division of Environmental Health, 1987-date.

11. Enterline PE, **Marsh GM**, Henderson V, and Callahan C: Mortality among Man-Made Mineral Fiber Workers in the United States: Mortality Update 1978-82, Technical Report submitted to the Thermal Insulation Manufacturers Association, January, 1988.
12. **Marsh GM** and Day R: Decision Making and Quality Control Criteria for Conduct of Pilot and Epidemiology Studies by ATSDR Under SARA Section 110. Technical Report submitted to the Chemical Manufacturers Association, July 1988.
13. **Marsh GM**, Preininger M, Ehland J, Beardon A, CoChien H and Paik M. OCMAP, OCMAP/PC Version 2.0 User Manual, Copyright 1989, University of Pittsburgh, Pittsburgh, PA.
14. **Marsh GM** and Day R: PITT/ACC Coronary Heart Disease Study, Final Report on Prevalence Data for the Wallingford, CT and Wayne, NJ Study Cohorts, Technical Report submitted to the American Cyanamid Company, December 1989.
15. **Marsh GM** and Day R: PITT/ACC Coronary Heart Disease Study: Final Report on the Study of Fatal Coronary Heart Disease Events. Technical Report submitted to the American Cyanamid Company, December 1989.
16. **Marsh GM**, Stone RA, Henderson V: A Reanalysis of the National Cancer Institute Study on Mortality among Industrial Workers Exposed to Formaldehyde. Technical Report submitted to the Formaldehyde Institute, March 1990.
17. **Marsh GM**, Stone RA, Henderson V: Additional Analysis of the National Cancer Institute Study on Mortality among Industrial Workers Exposed to Formaldehyde. Technical Report Submitted to the Formaldehyde Institute, May 1991.
18. Day R, **Marsh GM**, Ramlow J: A Review and Critique of Ecologic Analysis as an Epidemiologic Research Method. Technical Report Submitted to the Chemical Manufacturers Association, July 15, 1991.
19. Day R, **Marsh GM**, Ramlow J: Evaluating Disease Clusters: A Practical Guidance Document. Technical Report to the Chemical Manufacturers Association, August 1991.
20. Trauth J, Ramlow J, **Marsh GM**, DeCamp R, Day R: Responding to Community Concerns about Chemical Exposures: A Manual for DuPont Company Plant Managers. Technical Report Submitted to the DuPont Company, February 17, 1992.
21. Stone RA, **Marsh GM**, Lee KY, Smith TJ, Quinn MM, Wilcox MA: Assessing Joint Effects of Multiple Time-Dependent Exposures. Proceedings of the 9th ICOH International Symposium on Epidemiology in Occupational Health, Cincinnati, OH, September 23-25, 1992.
22. **Marsh GM**, Stone RA, Henderson VL, Smith TJ, Quinn MM, Wilcox MA: An Evaluation of New Fiber and Co-Exposure Data for the U.S. Cohort of Fiber Glass Production Workers. Proceedings of the 9th ICOH International Symposium on Epidemiology in Occupational Health, Cincinnati, OH, September 23-25, 1992.
23. Smith TJ, Quinn MM, Wilcox MA, Yu RC, Schneider T, **Marsh GM**: Extrapolation of Past Fiber Exposures in the Production Man Made Vitreous Fibers. Proceedings of the 9th ICOH international Symposium on Epidemiology in Occupational Health, Cincinnati, OH, September 23-25, 1992.
24. **Marsh GM**, Stone RA, Henderson V: The Wallingford Cohort Study: Mortality Patterns among Chemical Plant Workers Exposed to Formaldehyde and Other Substances. Technical Report Submitted to the American Cyanamid Company, May 1, 1992.

25. **Marsh GM**, Stone RA, Esmen NA, Gula MJ, Gause CK, Petersen NJ, Meaney FJ, Rodney S, Prybylski D: A Population-Based Case-Control Study of Lung Cancer Mortality in Four Arizona Smelter Towns. Technical Report Submitted to Agency for Toxic Substances Disease Registry, August, 1995.
26. **Marsh GM**, Stone RA, Esmen NA, Gula MJ, Gause CK, Petersen NJ, Meaney FJ, Rodney S, Prybylski D: A Population-Based Case-Control Study of Lung Cancer Mortality in Gila Basin Smelter Towns. Technical Report Submitted to the Arizona Department of Health Services, December, 1995.
27. **Marsh GM**, Stone RA, Youk AO, Henderson VL, Schall LC, Wayne LA, Lee KY: Mortality Patterns among Mineral Wool Workers, 1989 Update. Technical Report Submitted to the North American Insulation Manufacturer's Association, January 1996.
28. Stone RA, **Marsh GM**: A Review of the Proposed G-Null and G-Estimation Procedures to Control Bias in Occupational Cohort Studies, Report Submitted to the American Industrial Health Council, June 1996.
29. **Marsh GM**, Youk AO, Buchanich JM: Cohort Mortality Study of the Wallingford, Connecticut Plant. Additional Investigations of Pharyngeal Cancers. Technical Report Submitted to Cytec Industries, Inc., March 2001.
30. **Marsh GM**, Gula MJ, Youk AO, Schall LC: Bladder Cancer among Employees of the BP Chemicals Lima Ohio, Facility. Technical Report Submitted to BP Chemicals, May 2001.
31. **Marsh GM**, Youk AO, Buchanich JM: Cohort Mortality Study of Workers of the GenCorp Lawrence, Massachusetts Plastics Producing Plant. Technical Report Submitted to TERRA, Inc., May 2001.
32. **Marsh GM**, Cassidy LD, Youk AO: Evaluation of the Coordinated Care Network: The Gateway Health Plan Experience. Technical Report Submitted to Gateway Health Plan, September 2002.
33. **Marsh GM**, Youk AO, Morfeld P. Mis-Specified and Non-Robust Mortality Risk Models for Nasopharyngeal Cancer in the National Cancer Institute Formaldehyde Worker Cohort Study Technical Report Submitted to the European Chemical Industry Council (CEFIC), February 2006.
34. **Marsh GM**, Buchanich JM, Youk AO. Mortality Patterns among a Cohort of U.S. Petroleum Refinery Workers: Updated Follow-Up. Technical Report Submitted to BP, April 2006.
35. **Marsh GM**, Esmen NA, Buchanich JM, Youk AO. Copperhill Cohort Mortality Study Update - Final Report- Phase IV. Technical Report Submitted to NIOSH, April 2006.
36. **Marsh GM**, Buchanich J, Cunningham M. Evaluation of Confounding by Smoking in Studies of Transportation Workers Exposed to Diesel Exhaust, Technical Report Submitted to International Truck and Engine Corporation, May 2008.
37. Esmen NA, Youk AO, **Marsh GM**. Evaluation of Exposure Misclassification in the NCI-NIOSH Diesel Exhaust in Miners Study and its Impact on Risk Estimates and Exposure-Response Relationships. Technical Report Submitted to the Mining Awareness Resources Group, February 1, 2012.
38. Moshammer H, **Marsh GM**. Kein Grun zur Sorge. Sichere Arbeit.1:29-33, 2017
39. Yong M, **Marsh GM**. Statistical Threshold Value Estimation for Cobalt Exposure and Cancer Risk among Workers in the Hardmetal Industry. Technical Report Submitted to the Cobalt Institute, September 3, 2019.

PROFESSIONAL ACTIVITIES

1. Teaching (post-1990)

a. Courses Taught

BIOS 2016 - Sampling Design and Analysis, 2 credits (current)

BIOS 2016 - Sampling Design and Analysis, 3 credits

BIOS 2017 - Advanced Sampling Methods, 2 credits

BIOS 2011 - Principles of Statistical Reasoning, 2 credits

BIOS 2087 - Biostatistics Consulting Practicum (Co-Director), 1 credit

b. Other Teaching (guest lecturer)

EPID 2022 - Environmental Epidemiology, 2 credits (current)

EPID 2019 – Advanced Topics in Epidemiological Methods, 2 credits (current)

BIOS 2019 - Vital and Medical Care Statistics, 2 credits

EPID 2018 - Epidemiologic Methods I, 2 credits

EOH 2180 - Introduction to the Risk Sciences, 2 credits

c. Directed Graduate Student Essays, Theses, and Dissertations:

Jeffrey Rohay, M.S. (Bios) 1993, The Use of Computer Simulation to Explore Statistical Techniques to Analyze Adherence to Medication Regimens.

Laura Schall, M.S. (Bios) 1994, Assessing the Diagnostic Specificity and Sensitivity of Bladder Cancer Screening Modalities.

Leslie Wayne, M.S. (Bios) 1997, A Reanalysis of the U.S. Fibrous Glass Worker Cohort Data Using a Job Exposure Category Approach to Assess Exposure-Response.

Richard Mierzejewski, M.S. (Bios) 2000, An Analysis of the Drake Health Registry Study Screening Data.

Jennifer Barkin, M.S. (Bios) 2002, The Impact of Matching Criteria on Estimated Odds Ratios in an Occupational Case-Control Study.

Weilian Sang, M.S. (Bios) 2004, Comparison of Two Population Estimates and Its Effect on Standardized Mortality Ratio (SMR) Calculation.

Michael Cunningham, M.S. (Bios) 2006, Reanalysis of Smoking and Lung Cancer in the National Cancer Institute Acrylonitrile Worker Cohort Study.

Song-Won Seo M.S. (Bios) 2006, A Review and Comparison of Methods for Detecting Outliers in Univariate Data Sets.

Jeff Rohay, Ph.D. (Bios) 2009, Statistical Assessment of Medication Adherence Data: a Technique to Analyze the J-shaped Curve.

Jiawai Huang, M.S. (Bios) 2011, Comparing Methods of FRED System.

Dan Lans, M.S. (Bios) 2013, Assessment of Biomarkers and Clinical Characteristics to Determine Coronary Artery Disease among Symptomatic Patients.

Yimeng Liu, M.S. (Bios) 2013, Statistical Analysis of Data with Detection Limits.

Sarah Downing, M.S. (Bios) 2013, Monte Carlo Simulation Study to Assess Impact of Confounding by Smoking in a Cohort of Chemical Workers.

Chengli Shen, M.S. (Bios) 2014, Role of GBV-C and Herpes Virus Coinfection On Aids Development In Hiv-1 Seroconverters

Annabel Ferguson, M.S. (Bios) 2014, Comparison of Methods to Assess Inter-rater Reliability.

Xuan Li, M.S. (Bios) 2015, Statistical Analysis of Infectious Disease Data on Networks.

Qianheng Ma, M.S. (Bios) 2016, Behavioral Collapse In the Process of Weight Regain: A Data Driven Protocol.

Zhongying Xu, M.S. (2016), Optimal Sample Size Determination in Adaptive Seamless Phase II/II Designs.

d. Service on Masters and Doctoral Committees:

Barbara Salthouse, Ph.D. (Epid), 1994

Deborah Landon, Ph.D. (Epid), 1996

Ada Youk, Ph.D. (Bios), 1996

Maureen McGuire, Ph.D. (Epid), 1997

Laura Schall, Ph.D. (Epid), 2000

Christine Gause, Ph.D. (Bios), 2001

Patricia Documet, Dr.P.H. (HSA), 2001

Mary Yee Chow, M.P.H. (EOH), 2001

Jeff Lang, Ph.D. (EOH), 2004

Jeanine Buchanich, Ph.D. (Epid), 2007

Karen Singleton, M.P.H. (EOH), 2008

John Zeiner, M.S. (Bios), 2009

Jeffrey Rohay, Ph.D. (Bios), 2009

Hui Xu, M.S. (Bios), 2009

Lan Liu, Ph.D. (EOH), 2011

Jiawei Huang, M.S. (Bios), 2011

Dan Lans, M.S. (Bios), 2013

Sarah Zimmerman, M.S.. (BIOS), 2013

Annabel Furgeson, M.S. (Bios), 2013

Pornsri Khlangwiset, Ph.D. (EOH), 2013

Fangfang Chen, M.S. (Bios), 2013

Stacy Benson, Ph.D. (Epid), 2014

Yimeng Liu, M.S. (Bios), 2013 Ph.D., 2017

Chengli Shen, M.S. (Bios), 2014,

Xuan Li, M.S. (Bios), 2015

Quinheng Ma, M.S. (Bios), 2016

Zhongying Xu, M.S. (Bios), 2016

Arvind Dabass, Ph.D. (Epid), 2015

Liane Ong, Ph.D. (BCHS), 2016

Yaming Li, Ph.D. (Bios), 2017

Yuanyuan Jao, M.S. (Bios), 2018

XinXin Sun, M.S. (Bios), 2018

Matt Loiacono, M.S. (Bios), 2018

Kexin Guo, M.S. (Bios), 2018

e. Supervision of Post-Doctoral Students:

Jonathan Ramlow, Ph.D. Post-Doctoral Fellow, 1990-1992

2. Research and Training

a. Grants and Contracts Received

- 1974-81 Co-Principal Investigator, Contract: "Mortality among Man-Made Mineral Fiber Workers in the United States," Sponsor: Thermal Insulation Manufacturers Association, 6/1/74 - 5/31/81, \$232,055.
- 1977-81 Co-Principal Investigator, Contract: "Mortality and Morbidity among Workers in a Nickel Refinery and Manufacturing Plant in West Virginia, USA," Sponsor: INCO Limited, 6/1/77 - 5/31/81, \$67,880.
- 1978-79 Principal Investigator, Contract: "The Monsanto Company Indian Orchard Plant Mortality Study," Sponsor: The Monsanto Company, 9/1/78 - 12/31/79, \$63,548.
- 1979-date Principal Investigator, Development of Statistical/Epidemiological Computer Software Package, "OCMAP: A User-Oriented Occupational Cohort Mortality Analysis Program," Copyright, 1981, University of Pittsburgh.
- 1980-date Principal Investigator, Development of Statistical/Epidemiological Data Base, "MPDS: United States Mortality and Population Data System".
- 1980-81 Principal Investigator, Contract: "Proportional Mortality among Chemical Workers Exposed to Formaldehyde," Sponsor: The Monsanto Company, 1/1/80 -4/30/81, \$7,050.
- 1980-81 Principal Investigator, Contract: "A Case-Control Study of Digestive System Cancer and Genito-Urinary System Cancer within a Cohort of Chemical Workers," Sponsor: The Monsanto Company, 1/1/80 - 4/30/81, \$7,050.
- 1980-81 Co-Principal Investigator, Contract: "Cancer in Arsenic Exposed Populations," Sponsor: National Cancer Institute, 1/1/80 - 6/30/81, \$315,870.
- 1981-86 Co-Principal Investigator, Contract: "Factors Associated with Mortality among Smelter Workers," Sponsor: Smelter Environmental Research Association, 6/1/82 - 3/31/86, \$485,000.
- 1982-85 Co-Principal Investigator, Contract: "Mortality among Petroleum Refinery Workers," Sponsor: Mobil Oil Corporation, 6/1/82 - 6/30/85, \$100,000.
- 1983-87 Principal Investigator, Contract: "Investigation of Cause-Specific Mortality among Employees of the Shell Oil Company's Refinery and Chemical Plant at Deer Park, Texas," Sponsor: Shell Oil Company, 3/1/83 - 6/30/87, \$507,550.
- 1984-87 Co-Principal Investigator, Contract: "Update of the Man-Made Mineral Fiber Worker Study," Sponsor: Thermal Insulation Manufacturers Association, 12/1/84 - 6/30/87, \$195,000.
- 1984-87 Co-Principal Investigator, Contract: "A Generalized Computer Program for Multistage Modeling with Time Dependent Dose Patterns with Applications to Arsenic-Exposed Smelter Worker Mortality Data." Sponsor: U.S. Environmental Protection Agency, office of Research and Development, 10/1/84 - 12/31/87, \$80,000.
- 1985-86 Co-Principal Investigator, Contract: "Update of the Mortality and Morbidity Study of Workers in a Nickel Refinery and Manufacturing Plant in West Virginia, USA," Sponsor: U.S. Environmental Protection Agency/Program Resources, Inc., 7/1/85 - 12/31/86, \$20,000.

- 1985 Principal Investigator, Contract: "Statistical Analysis of the Drake Superfund Site Occupational Health Survey," Sponsor: Pennsylvania State Health Department/Lock Haven Hospital, 5/1/85 - 8/31/85, \$15,699.
- 1985-87 Principal Investigator, Contract: "1977-82 Update of the Monsanto Company Indian Orchard Plant Mortality Study," Sponsor: The Monsanto Company, 6/1/85 - 12/31/87, \$55,394.
- 1986-96 Principal Investigator, Contract: "Health Registry and Epidemiologic Study of Former Drake-Kilsdonk Chemical Workers," Sponsor: Pennsylvania State Health Department/National Institute for Occupational Safety and Health, 8/1/86 - 6/30/96, \$1,355,500.
- 1986-92 Principal Investigator, Contract: "Mortality Patterns among Chemical Plant Workers Exposed to Formaldehyde and Other Substances," Sponsor: American Cyanamid Company, 10/1/86 - 2/28/91, \$165,891.
- 1987-93 Principal Investigator, Contract: "Mortality Surveillance Program for the U.S. Fiberglass and Mineral Wool Worker Cohort," Sponsor: Thermal Insulation Manufacturers Association, 5/1/87 - 3/31/93, \$2,300,000.
- 1987 Developer/Coordinator, The Monsanto Company Graduate Grant Program. Two-Year Fellowship Program for Students in Biostatistics with Interest in Occupational/Environmental Health. 9/1/87-8/31/89, \$24,560.
- 1987 Co-Principal Investigator, Contract: "Factors Associated with Reported Medical Problems in a Community Exposed to Hazardous Waste Site Materials," Sponsor: DuPont Company, 5/1/87 - 10/31/87, \$51,000.
- 1988 Principal Investigator, Contract: "Development of Decision and Quality Control Criteria for Conduct of Pilot and Epidemiology Studies by ATSDR and SARA Section 110", Sponsor: Chemical Manufacturers Association, 2/1/88 - 6/30/88, \$20,000.
- 1988-89 Principal Investigator, Contract: "Coronary Heart Disease Patterns among Employees of a Chemical Manufacturing Facility," Sponsor: American Cyanamid Company, 9/1/88 - 8/31/89, \$86,000.
- 1989-91 Principal Investigator, Grant: "A Mortality Update and Case-Control Study of Workers Exposed to Arsenic in a Copper Smelter", Sponsor: U.S. Environmental Protection Agency, 1/1/89 - 7/31/91, \$57,000.
- 1989 Principal Investigator, Contract: "A Review and Critique of Ecologic Analyses as an Epidemiologic Research Method", Sponsor: Chemical Manufacturers Association, 1/1/89 - 6/30/89, \$21,000.
- 1989-91 Principal Investigator, Contract: "A Reanalysis of the National Cancer Institute Study on Mortality among Industrial Workers Exposed to Formaldehyde," Sponsor: Formaldehyde Institute, 8/15/89 - 2/28/91, \$41,355.
- 1990-93 Recipient, The DuPont Company Educational Aid Grant Award, 9/1/90-8/31/93, \$45,000.
- 1990-95 Co-Principal Investigator, Contract: "Program for Biostatistical Support for West Penn Hospital Research Activities", Sponsor: The Western Pennsylvania Hospital, 5/1/90 - 4/30/91, \$128,272.

- 1990-92 Principal Investigator, Contract: "Post-Doctoral Research Fellowship Program in Occupational and Environmental Health", Sponsor: DuPont Company, 5/1/90 - 4/30/92, \$167,336.
- 1991-94 Principal Investigator, Contract: "Enhancement, Modification and Update of an Occupational and Ecological Mortality and Population Data System", Sponsor: DuPont Company, 1/1/91 - 12/31/92, \$130,000.
- 1991-92 Principal Investigator, Contract: "A Model Program for Assessing Health Risks among Communities Near Hazardous Waste Sites", Sponsor: DuPont Company, 1/1/91 - 12/31/91, \$30,000.
- 1991-93 Principal Investigator, Contract: "An Expanded Nested Case-Control Study of Respiratory System Cancer among U.S. Man-Made Mineral Fiber Workers", Sponsor: Thermal Insulation Manufacturers Association, 1/1/91 - 1/31/93, \$88,000.
- 1991-92 Principal Investigator, Contract: "Identifying and Responding to Human Disease Clusters: A Practical Guidance Document", Sponsor: Chemical Manufacturers Association, 1/15/91 - 5/15/91, \$20,000.
- 1991-95 Principal Investigator, Contract: "A Population-Based Case-Control Study of Lung Cancer Mortality in Gila Basin Smelter Towns", Sponsor: Arizona Department of Health Services, 12/1/91 - 11/30/93, \$250,000.
- 1992-95 Principal Investigator, Contract: "A Population-Based Case-Control Study of Lung Cancer Mortality in Four Arizona Smelter Towns", Sponsors: Agency for Toxic Substances and Disease Registry/Arizona Department of Health Services, 11/1/92 - 10/31/94, \$154,000.
- 1993-94 Principal Investigator, Contract: "Continuation of the Mortality Surveillance Program for the U.S. Man-Made Mineral Fiber Industry", Sponsor: North American Insulation Manufacturer's Association, 4/1/93-3/31/94, \$342,000.
- 1994-96 Principal Investigator, Contract: "A Program of Biostatistical Support for the Research and Clinical Audit Activities of HealthAmerica of Pittsburgh", Sponsor: HealthAmerica of Pittsburgh, 1/1/94-6/30/96, \$220,000.
- 1994-99 Principal Investigator, Contract: "Continuation and Expansion of the Mortality Surveillance Program for the U.S. Man-Made Mineral Fiber Industry", Sponsor: North American Insulation Manufacturer's Association, 4/1/94-3/31/99, \$2,549,377.
- 1996-06 Principal Investigator, Contract: "Maintenance of the Drake Health Registry Program", Sponsor: Pennsylvania Cancer Control Program, 7/1/96-6/30/06, \$2,000,000.
- 1996-09 Principal Investigator, Contract: "Mortality Patterns among Pharmaceutical Workers at the Eli Lilly & Company, Clinton, IN Plant", Sponsor: Eli Lilly & Company, 9/1/96-7/31/05, \$355,342.
- 1997-04 Principal Investigator, Grant: "A Program of Epidemiological and Biostatistical Support for the Acrylonitrile Group", Sponsor: The Acrylonitrile Group, 12/1/97-11/30/03, \$180,000.
- 1998-99 Principal Investigator, Contract: "Evaluation of the Community Health Project", Sponsor, Pennsylvania Department of Health, 10/1/98-12/31/99, \$100,000.

- 1998-14 Principal Investigator, Contract: "A Program of Biostatistical Support for the Research and Quality Improvement Activities of Highmark Blue Cross Blue Shield", Sponsor: Highmark Blue Cross Blue Shield, 3/1/98-12/31/13, \$1,500,000.
- 1999-09 Principal Investigator, Contract: "Mortality Patterns among Pharmaceutical Workers at the Eli Lilly & Company, Clinton, IN Plant: Additional Investigations of Lung and Hematopoietic Tissue Cancer," Sponsor: Eli Lilly & Company, 2/1/99-7/31/03, \$34,668.
- 1999-03 Principal Investigator, Contract: "A Collaborative Program of Biostatistical and Epidemiological Support for Solutia, Inc.," Sponsor: Solutia, Inc., 3/1/99-2/28/02, \$218,688.
- 1999-09 Principal Investigator, Contract: "Mortality Patterns among Pharmaceutical Workers at the Eli Lilly & Company, Lafayette, IN Plant," Sponsor: Eli Lilly & Company, 9/1/99-7/31/03, \$86,272.
- 1999-03 Principal Investigator, Contract: "Supplemental Funding for the Mortality Surveillance Program for the U.S. Man-Made Mineral Fiber Industry," Sponsor: North American Insulation Manufacturer's Association, 4/1/99-3/31/03, \$706,250.
- 2000-05 Principal Investigator (Subcontract with University of Oklahoma Health Sciences Center): Contract: "Mortality Patterns among Workers Exposed to Chloroprene," Sponsor: International Institute of Synthetic Rubber Producers, 2/1/00-1/31/03, \$631,957.
- 2002-16 Principal Investigator, Contract: "Mortality Surveillance and Epidemiologic Support Program for Owens Corning," Sponsor: Owens Corning, 1/1/02-12/31/14 \$3,000,000.
- 2002-13 Principal Investigator, Contract: "Historical Cohort Study of Pratt&Whitney Employees at Seven CT Sites," Sponsor: Pratt&Whitney, 7/15/02-5/31/13, \$3,693,701.
- 2002-05 Co-Investigator, Contract: "Pediatric Injury Surveillance System," Sponsor: Maternal and Child Health Bureau, U.S. Dept. of Health and Human Services, Health Resources and Services Administration, 9/1/02-8/31/04, \$238,727.
- 2003-05 Co-Investigator, Contract: "Creation and Maintenance of an Occupational and Non-occupational Medical Claims Analysis Database for PPG Industries," Sponsor: PPG Industries, Inc., 01/02/03-12/31/07, \$465,198.
- 2005-12 Co-Investigator, Grant, "Academic Partners in Environmental Public Health Tracking Program", Sponsor: U.S. Centers for Disease Control, 07/01/05-06/30/10.
- 2007-08 Principal Investigator, Contract: "Tungsten Industry Phase 2 Feasibility Study", Sponsor: International Tungsten Industry Association, 10/01/07-10/31/08, \$200,000.
- 2008 Co-Investigator, Contract: "Evaluation of Mortality Rates in High Altitude U.S. Counties", Sponsor: Amgen Corp., 3/1/08-12/31/08, \$25,777.
- 2009-10 Principal Investigator, Grant: "Historical Cohort Study of Workers Exposed to Tungsten Carbide with Cobalt Binder, Phase 3-Part 1", Sponsor: Pennsylvania State Department of Health, 7/1/09-6/30/11, \$750,000.
- 2010 Principal Investigator, Contract: "Literature Review of Health Effects from Exposure to Man-Made Vitreous Fibers", Sponsor: North American Insulation Manufacturers Association, 1/1/10-6/30/10, \$30,000.

- 2012-12 Co-Investigator, Contract, "Updated and Expanded Study of Polycythemia Vera and Other Myeloproliferative Neoplasms in the Tri-County Area", Sponsor, Pennsylvania Department of Health, 3/2012-9-2/2012, \$272,211.
- 2010-13 Co-Investigator, Grant: Ecological and Case-Control Study of Ambient Air Levels and Childhood Blood Lead Levels", Sponsor: Centers for Disease Control, 9/15/10-9/14/13, \$207,748.
- 2011-13 Principal Investigator, Contract:" Use of Human Exposure and Epidemiology Data in a Physiologically Based Kinetic Modeling Risk Assessment for Chloroprene", Sponsor: International Institute of Synthetic Rubber Producers, 1/1/11-6/30/11, \$43,974.
- 2011-12 Principal Investigator, Grant: "Historical Cohort Study of Workers Exposed to Tungsten Carbide with Cobalt Binder, Phase 3-Part 2", Sponsor: Pennsylvania State Department of Health, 6/1/11 - 5/31/12, \$100,000.
- 2011 Co-Investigator, Grant: "Updated and Expanded Study of Polycythemia Vera and Other Myeloproliferative Neoplasms in the Tri-County Area", Sponsor: Commonwealth of Pennsylvania, 1/1/2011-9/17/2012, \$286,210.
- 2011 Co-Investigator, Grant: "Evaluation of Commercial Resources for Tracing/Locating NCS Participants", Sponsor: National Institutes of Health, 9/23/2010-9/22/2011, \$62,045.
- 2011-13 Principal Investigator, Contract: "Statistical Methods for Adjusting Risk Estimates for Potential Confounding by Smoking", Sponsor: The Acrylonitrile Group, 9/1/11-8/31/12, \$26,466.
- 2011-12 Principal Investigator, Contract: "Evaluation of Uncertainty Factors in NCI-NIOSH Diesel Exhaust In Miners Study Exposure Assessment and Their Impact on Risk Estimates and Exposure-Response Relationships", Sponsor: Mining Awareness Resource Group, 9/1/11-2/28/12, \$30,000.
- 2011-17 Principal Investigator, Contract: "Historical Cohort Study of Production Workers Exposed to Tungsten Carbide with Cobalt Binder", Sponsor: International Tungsten Industry Association, 11/15/11-03/31/17, \$2,532,427.
- 2012-14 Co-Investigator, Contract, "Health and Coal Mining and Non-Coal Mining Counties in Appalachia", Sponsor: Appalachian Research Initiatives for Environmental Science, 7/2012-6/2014, \$220,000.
- 2012-15 Principal Investigator, Contract: "Update of the Lima Plant Acrylonitrile Cohort Study", Sponsor: INEOS Nitriles, 1/1/12-06/30/15, \$248,000.
- 2012-15 Principal Investigator, Contract: "Analysis of Pooled Data from the NCI and DuPont Acrylonitrile Worker Cohort Studies-Phase 1-Part 1", Sponsor: The AN Group, 8/1/12-7/31/15, \$100,000.
- 2013-14 Principal Investigator, Contract: "Commentary on Methodological and Interpretational Issues in the National Cancer Institute Formaldehyde Worker Cohort Study", Sponsor: Research Foundation for Health and Environmental Effects, 11/01/13-03/31/14, \$10,000.
- 2013-14 Principal Investigator, Contract: "Feasibility Study of Historical Cohort Study of Pharmaceutical Production Workers at the Cosmopolis, Brazil Site, Phase 1: Feasibility Evaluation", Sponsor: Eli Lilly and Company, 11/01/13-03/31/14, \$32,441.

- 2013-16 Co-Investigator, Contract, "Connecting Dust Characteristics and Worker Health in Underground Coal Mining", Sponsor: Alpha Foundation, 11/2013-10/2016, \$797,000.
- 2013-17 Principal Investigator, Contract: "Analysis of Pooled Data from the NCI and DuPont Acrylonitrile Worker Cohort Studies-Phase 1-Part 2", Sponsor: The AN Group, 8/1/12-7/31/14, \$80,000.
- 2013-14 Principal investigator, Subcontract: "Sample Design and Analysis for Child Welfare Project" Sponsor: Department of Social Work, 10/01/13-06/30/14, \$10,125.
- 2014-16 Principal Investigator, Contract:" Additional Reevaluation of the National Cancer Institute Formaldehyde Cohort Data", Sponsor: Research Foundation for Health and Environmental Effects, 02/01/14-03/31/15, \$70,000.
- 2014-17 Principal Investigator, Contract: "Update and Enhancement of the Mortality and Population Database System (MPDS)", Sponsor: GSPH Dean's office, 10/01/14-08/31/16, \$232,724.
- 2015-17 Principal Investigator, Contract: "Historical Cohort Study of Workers from the Cytec Aerospace Materials Facility in Havre de Grace, MD", Sponsor: Cytec Aerospace Materials, 01/01/15-06/30/16, \$222,915.
- 2015-date Principal Investigator, Contract: "Update of the Clinton Plant Historical Cohort Study", Sponsor: Eli Lilly and Company, 04/30/15-04/30/17, \$337,332.
- 2015-18 Co-Investigator, Contract, "The MPDS as a Public Health Decision Making Tool", Robert Wood Johnson Foundation, 8/2015-7/2018, \$797,000.
- 2018-date Co-Investigator, Contract, "Incidence Study of Hematopoietic Tissue Cancers among Workers from the Eli Lilly and Company Clinton Plant", Sponsor: Eli Lilly and Company 07/01/18-12/31/19, \$282,000.
- 2018-19 Principal Investigator, Contract, "Threshold Value Estimation for Cobalt and Cancer Risk among Workers in the Hardmetal Industry", Sponsor: the Cobalt Institute, 07/01/18-10/31/18, \$30,000.
- 2018-date Principal Investigator, Contract, "2017 update of the University of Pittsburgh Historical Cohort Study of Production Workers Exposed to Chloroprene", Sponsor: International Institute of Synthetic Rubber Producers, 10/01/18-03/31/20, \$148,486.
- 2019-date Principal Investigator, Contract, "Renanalysis of the National Cancer Institute Cohort Study of Acrylonitrile Workers", Sponsor: The Acrylonitrile Group, 09/01/19-09/30/20, \$116,000.

Conference Presentations, Invited Lectureships and Major Seminars (post-1990)

"Additional Analysis of the National Cancer Institute Study on Mortality among Industrial Workers Exposed to Formaldehyde". Presented at the 1991 American Industrial Hygiene Conference and Exposition. Salt Lake City, UT, May 23, 1991.

"The Impact of Exposure Misclassification and Confounding on the Mortality Experience of U.S. Man-Made Vitreous Fiber Workers". Presented at the 8th International Congress on Occupational Health (ICOH)-Epidemiology in Occupational Health, Paris, France, September 12, 1991.

"Long-Term Mortality Studies of Man-Made Mineral Fiber Exposure." Presented at the 1991 ICOH/Congrex Symposium on Health Aspects of MMMF. Rotterdam, Netherlands, September 13, 1991.

"The University of Pittsburgh Studies of Man-Made Mineral Fiber Workers". Presented at the 1992 Toxicology Forum, Washington D.C., February 18, 1992.

"Evaluating Health Risks in a Multi-Exposure Environment: The Case of Formaldehyde." Presented at the 1992 Annual Meeting of the American Occupational Health Conference, Washington, D.C., May 8, 1992.

"An Expert Computer System to Accompany the Model Standardized Risk Assessment Protocol for Use with Hazardous Waste Sites". Presented at the ATSDR International Congress on the Health Effects of Hazardous Wastes, Atlanta, GA, May 3, 1993.

"Drake Chemical Company Superfund Site. Notification and Medical Surveillance of Workers at High Risk of Developing Bladder Cancer", Presented at the ATSDR International Congress on the Health Effects of Hazardous Wastes, Atlanta, GA, May 4, 1993.

"A Preliminary Evaluation of New Fiber and Co-Exposure Data for the U.S. Man-Made Vitreous Fiber Worker Cohort", Presented at the 10th International Congress on Occupational Health (ICOH), Nice, France, September 25, 1993.

"OCMAP-PLUS: A New Occupational Cohort Mortality Analysis Program for Multifactor Work History and Exposure-Based Analysis", Presented at the IARC Conference on Retrospective Assessment of Occupational Exposures in Epidemiology, Lyon, France, April 13-15, 1994.

"A Population-Based Case-Control Study of Lung Cancer Mortality in Four Arizona Smelter Towns", Presented at the ATSDR International Congress on Hazardous Waste: Impact on Human and Ecological Health, Atlanta, GA, June 6, 1995.

"Mortality Surveillance Program for the United States Man-Made Mineral Fiber Workers Cohort: Mortality Patterns among Rock/Slagwool Workers 1989 Update", Presented at the Symposium on the Health Effects of Fibrous Materials (excluding asbestos), Sydney, Australia, October 31, 1995.

"A Program of Biostatistical Support for the Research and Quality Improvement Activities of Highmark Blue Cross Blue Shield", Presented at the 1999 Annual Meeting of the Pennsylvania Public Health Association, Pittsburgh, PA, October 25, 1999.

"The Role of Epidemiology in an Integrated Workplace Surveillance Program", Presented at the 1999 Eli Lilly & Company Annual Health Fair, Indianapolis, IN, September 19, 1999.

"Census 2000: Scientifically and Politically Correct?" Symposium Panel Member and Discussant, University of Pittsburgh, Graduate School of Public Health, May 5, 2000.

"Industrial Inorganic Fibres: Assessing and Controlling the Risk to Public Health", Presented at the 26th International Congress on Occupational Health (ICOH): Mini-Symposium on Fibres-State of the Art, Singapore, August 28, 2000.

"Historical Cohort Study of U.S. Fiber Glass Production Workers. I. Initial Findings of 1992 Follow-Up", Presented at the 26th International Congress on Occupational Health (ICOH), Singapore, August 29, 2000.

"Staying Healthy in an Unhealthy World-Occupational and Environmental Health", Presented at the "Mini-Medical School" Seminar Series of the University of Pittsburgh, School of Medicine, December 5, 2000.

"Does Fiber Glass Pose a Respiratory Cancer Risk in Man? Findings from the Latest Update of the U.S. Cohort Study of Man-Made Vitreous Fiber Workers" Ninth Inhaled Particles Conference, British Occupational Hygiene Society, Robinson College, Cambridge, UK, September 2-6, 2001.

“Bladder Cancer among Chemical Workers Exposed to Nitrogen Products and other Substances”, 2003 British Occupational Hygiene Society Annual Meeting, London, England, April 8, 2003.

“Pharyngeal Cancer Mortality among Workers Exposed to Formaldehyde”, 2004 Toxicology Forum, Washington, D.C., February 2, 2004.

“Mortality Patterns among Pharmaceutical Production Workers at One U.S. Site”, 2004 British Occupational Hygiene Society Annual Meeting, Stratford England, April 20, 2004.

“Mortality Patterns among Workers Exposed to Chloroprene and Other Substances”, 2005 British Occupational Hygiene Society Annual Meeting, Manchester, England, April 19, 2005.

“Mortality among Industrial Workers Exposed to Chloroprene and Other Substances: I. Methods and Issues”, 2005 International Symposium on Butadiene and Chloroprene, Charleston, SC, September 20, 2005.

“Mortality among Industrial Workers Exposed to Chloroprene and Other Substances: II. Results”, 2005 International Symposium on Butadiene and Chloroprene, Charleston, SC, September 20, 2005.

“Overview of Formaldehyde Epidemiology”, Toxicology Forum, 2005 Annual Meeting, Brussels, Belgium, November 8, 2005.

“EMF-ELF Exposure Potentials among Magnetic Particle Inspections Workers”, International Workshop to Evaluate Future Needs of Occupational ELF Epidemiology, Edinburgh, Scotland, September 14-15, 2006.

“Sampling, Statistics and Iraq: Review and Critique of Two Surveys Conducted to Estimate Deaths in Iraq Since 2003.” GSPH Doctoral Student Association Invited Seminar, Pittsburgh, PA, December 10, 2006.

“A New Software Tool- *Rapid Assessment and Characterization of Environmental Risks (RACER)*”. Presented at the Environmental Summit, sponsored by the GSPH Department of Epidemiology, Pittsburgh, PA, April 18, 2007.

“Formaldehyde and Human Cancer Risk Understanding the Nasopharyngeal Cancer Excess in Plant 1 of the NCI Study,” Formaldehyde International Science Conference, Barcelona, Spain, September 20-21, 2007.

“Rapid Assessment and Characterization of Environmental Risk (RACER)” Centers for Disease Control, Public Health Information Network (PHIN) Annual Meeting, Atlanta, GA, August 25, 2008.

“An Epidemiological Study of Mortality among a Cohort of Jet Engine Manufacturing Workers”, Society for Neuro-Oncology Annual Meeting, Las Vegas, NV, November 19-22, 2008.

“Rapid Assessment and Characterization of Environmental Risk (RACER)” CDC National Environmental Public Health Tracking Conference, Washington, D.C., February 24-26, 2009.

“Training Workshop: Rapid Assessment and Characterization of Environmental Risk (RACER)” CDC National Environmental Public Health Tracking Conference, New Orleans, LA, April 24-26, 2010.

“Does Formaldehyde Cause Leukemia? Opposing Viewpoint” University of Pittsburgh, Department of Epidemiology Tipping Point Seminar Series, December 2, 2010.

“Formaldehyde and Nasopharyngeal Cancer- What Do We Know from the Epidemiology Studies?” Formaldehyde International Science Conference, Madrid, Spain, April 18-19, 2012.

“An International Historical Cohort Study of Workers in the Hard-Metal Industry”, EPICOH Conference, Utrecht, The Netherlands, June 18-21, 2013.

“Evaluating Health Effects of Exposure to Acrylonitrile”: A Comprehensive Research Program at the University of Pittsburgh”, EPICOH Conference, Utrecht, Netherlands, June 18-21, 2013.

“An International Historical Cohort Study of Workers in the Hard-Metal Industry”, EPICOH 2014 Conference, Chicago, IL, June 23-26, 2014.

“Preliminary Results from the International Historical Cohort Study of Workers in the Hard-Metal Industry”, Cobalt Development Institute Scientific Meeting, Kristiansand, Norway, April 19, 2016.

“Mini-Symposium on the Epidemiology of Tungsten Carbide with Cobalt Binder”, Coordinator and Presenter, EPICOH 2017 Conference, Edinburgh, Scotland, August 28-31, 2017.

“Nasopharyngeal Cancer and Formaldehyde Exposure: What We Know from the Epidemiology”, American Chemistry Council Conference on Health Effects from Formaldehyde Exposure, Chapel Hill, North Carolina, October 10-11, 2017.

“The Mineralogy and Mesothelioma Epidemiology of Cosmetic Talc”, Monticello Conference, Charlottesville, VA, October 17-19, 2017.

c. Other Research and Training (post-1990)

Journal Refereeing

Annals of Epidemiology

Lancet

Epidemiology

American Journal of Epidemiology

Journal of Occupational and Environmental

Medicine

Occupational and Environmental Medicine (U.K.)

Journal National Cancer Institute

American Industrial Hygiene Association Journal

Cancer Causes and Control

American Journal of Public Health

Journal of Exposure Analysis and Environmental Epidemiology

Archives of Environmental Health

Critical Reviews in Toxicology

Chemico-Biological Interactions

Regulatory Toxicology and Pharmacology

Risk Analysis

Journal of Occupational and Environmental

Hygiene

Open Epidemiology Journal

Editorial Boards

1995-date Associate Editor, *Cancer Informatics*

2008-12 Associate Editor, *Journal of Environmental and Public Health*

2009-date Associate Editor, *Epidemiology Research International*

2013-date Associate Editor, *Open Access Epidemiology*

d. Service (post-1990)

(1) Departmental

1992-93 Representative, GSPH Accreditation Committee

1995-98 Member, Budget Policies Committee

2004-05 Chair, Committee to Evaluate Master’s Comprehensive Examination

2006-07 Chair, Committee to Evaluate Departmental Biostatistics Consulting Practicum

2008 Founder and Director, Center for Occupational Biostatistics and Epidemiology

2007, 09-10 Interim Chairman, Department of Biostatistics

2010-16 Member, Curriculum Committee

2015-18 Member, PhD Admissions Committee

(2) School

1992-94 President, GSPH Faculty Senate

1992-94 Chair, GSPH Faculty Senate Executive Committee

1992-94 Member, GSPH Strategic Planning Committee

1996 Chair, Ad Hoc Search and Appointment Committees for Associate Professor and Director Occupational Medicine, Department of Environmental & Occupational Health

1997 Member, GSPH Recruitment Committee

1999 Member, GSPH Faculty Advancement Committee

1999-01 Member, Faculty Advancement, Promotion and Tenure Committee

1999-00 Member, GSPH Search Committee for Chair of EOH Department

2000-01 Member, GSPH Committee to Develop MPH Comprehensive Examination

2005-06 Member, GSPH Committee to Evaluate MMPH Program

2007, 09-10 Member GSPH Council

2007, 09-10 Member, Dean's Cabinet

2009-10 Departmental Chair Representative, GSPH Planning and Budget Policy Committee

2012-16 Departmental Representative, GSPH Faculty Advancement, Promotion, Tenure Committee

2014-15 Member, Faculty Search Committee, Department of Epidemiology

(3) University

1990-date Member, Pittsburgh Cancer Institute

1995 Member, International Committee to Review Graduate Program of the Civil & Environmental Engineering Department

1995-96 Member, Fact-Finding Committee for the Performance Review of Dean Mattison

1997-03 Member, Health Sciences Library Advisory Committee.

1999-00 Member, Search Committee for Dean of GSPH

2000-date Faculty Associate, Center for Social and Urban Research

(4) US and International

- 1987-99 Invited Member, National Scientific Advisory Committee, CDC, Center for Environmental Health, Atlanta, GA.
- 1989-92 Invited Member, Study Section on Safety and Occupational Health, Centers for Disease Control/National Institute for Occupational Safety and Health.
- 1991-92 Invited Participant, Advisory Committee on ATSDR Sponsored Project, "Community Health Effects of a Hazardous Waste Incinerator", University of South Carolina, Columbia Campus.
- 1992-93 Guest Editor, "The First International Conference on the Safety of Water Disinfection: Balancing Chemical and Microbial Risks". International Life Sciences Institute, Health and Environmental Sciences Institute.
- 1992 Reviewer, "Draft Health Assessment on Inorganic Arsenic", Health and Welfare Canada, May 1992.
- 1992 Invited Participant, Workshop on Environmental Epidemiology, National Research Council, National Academy of Sciences, Washington, D.C., June 1992.
- 1994-96 Invited Member, Committee to Review the Health Consequences of Military Service During the Persian Gulf War, National Academy of Sciences, Institute of Medicine, Medical Follow Up Agency.
- 1997 Invited Member, Site Visit Team, Veterans Health Administration, office of Public Health and Environmental Hazards, Environmental Epidemiology Service, March 1997, Washington, D.C.
- 1998 Invited Peer Reviewer, External Peer Review Workshop on Hazard Assessment and Dose-Response Characterization for the Carcinogenicity of Formaldehyde by Route of Inhalation. Health Canada and the U.S. Environmental Protection Agency, Ottawa, Canada, March-December, 1998.
- 2001 Invited Member, International Agency for Research on Cancer (IARC), Working Group to Re-evaluate the Carcinogenicity of Man-Made Vitreous Fibers, Lyon, France, October 9-16, 2001.
- 2001-03 Member, NIOSH Scientific Advisory Panel, Proposed NIOSH Study of Health Effects of Exposure to Electromagnetic Fields (EMF), Cincinnati, OH, May 4, 2001.
- 2002 Member, CDC Scientific Advisory Panel to Review Protocol for Study of Long-Term Health Effects Following Administration of Anthrax Vaccine, Atlanta, GA, May 14-15, 2002.
- 2006 Invited Member, Butadiene Risk Assessment Expert Panel, Sciences International Inc., Alexandria, VA.
- 2006 Invited Member, Electromagnetic Field (EMF) Risk Assessment Expert Panel, Energy Networks Association, Edinburgh, Scotland
- 2006 Invited Member, Expert Panel to Assess Health Effects of Artificial Sweetener, Burdock Group, Washington, D.C.
- 2008 Invited Charter Member, U.S. Environmental Protection Agency, Science Advisory Board, Asbestos Panel, Washington, D.C.

(5) Private

1990-95 Consultant, HealthAmerica, Pittsburgh, PA.

1993-04 Member, Research Advisory Committee, Showa Denko America, New York, NY.

1994-95 Consultant, PPG Industries, Inc., Pittsburgh, PA.

1994-12 Consultant, Cytec Industries, Inc., West Paterson, NJ.

1994-03 Consultant, Ecology and Environment, Buffalo, NY.

1995-96 Consultant, Group Health Plan, St. Louis, MO.

1995-99 Scientific Reviewer, ARCO Chemical Company, Newtown Square, PA.

1996-07 Consultant, CertainTeed Products Corporation, Valley Forge, PA.

1996-03 Scientific Reviewer, Electric Power Research Institute, Palo Alto, CA.

1996-01 Scientific Reviewer, Chemical Manufacturers Association, Washington, D.C.

1996-01 Consultant, BP Chemicals, Inc., Cleveland, OH.

1997 Scientific Reviewer, American Industrial Health Council, Washington, D.C.

1997 Scientific Reviewer, American Institute of Biological Sciences, Washington, D.C.

1997-98 Consultant, Highmark Blue Cross Blue Shield, Pittsburgh, PA.

1997-98 Consultant, The Mead Corporation, St. Paul, MN.

1997-05 Consultant, The Acrylonitrile (AN) Group, Washington, D.C.

1998-01 Consultant, Chemical Industry Institute of Toxicology, Research Triangle Park, NC

1998-02 Consultant, National Academy of Sciences, Institute of Medicine, Medical Follow-Up Agency, Washington, D.C.

1998-03 Consultant, TERRA Inc., Tallahassee, FL.

1999 Consultant, Aristech Chemicals Corporation, Pittsburgh, PA.

1999 Consultant (Seminar Presenter), Dow Chemical Company & Dow Corning Corporation, Midland, MI.

1999-02 Consultant, BP Inc., Chicago, IL.

1999-03 Consultant, New Jersey Department of Health and Senior Services, Trenton, NJ.

1999-03 Invited Member, Research Advisory Committee, University of Texas, Houston/Baylor Medical College, Houston, TX.

1999-01 Consultant, Orthopedic & Reconstructive Center, Oklahoma City, OK.

2000 Consultant, The Sapphire Group, Bethesda, MD.

2000-01 Consultant, American Smelting and Refining Company, Salt Lake City, UT.

2000-01 Consultant, Dow Chemical Company, Midland, MI.

2001-05 Consultant, Merck & Co., Rahway, NJ.

2001-05 Consultant, Gateway Health Plan, Pittsburgh, PA.

2001-02 Consultant, Coordinated Care Network, Monroeville, PA.

2001-07 Consultant, NIOSH Follow-up Investigations of Suspected Health Effects of Exposure to Effluents from a Copper Smelter, Copperhill, TN.

2001-02 Consultant, Pratt & Whitney Company, Hartford, CT.

2002-09 Consultant, Formaldehyde Council Inc., Washington, D.C.

2003-10 Invited Member, Scientific Advisory Board, Semi-Conductor Industry Association, Washington, D.C.

2003- 08 Consultant, Academy for Educational Development, Washington, D.C.

2004-06 Consultant, Pressley Ridge Child Care Services, Pittsburgh, PA.

2004-13 Invited Member, Scientific Advisory Board, Dow Chemical Co., Midland, MI.

2005-07 Consultant, PPG Industries, Inc., Pittsburgh, PA.

2005-07 Consultant, FormaCare -European Chemical Industry Council (CEFIC), Brussels, Belgium.

2007-11 Consultant, International Truck and Engine Corporation, Chicago, IL.

2009 Consultant, North American Insulation Manufacturers Association, Alexandria, VA.

2009-11 Consultant, Rohm and Haas Company, Philadelphia, PA.

2009-11,15 Consultant, American Chemistry Council, Washington, DC.

2009-10 Consultant, United BioSource Corporation, Kansas City, MO.

2010-11 Consultant, Momentive Specialty Chemicals, Inc., Columbus, OH.

2010-11 Consultant, Navistar, Inc., Chicago, IL.

2010-11 Consultant, Honeywell International, Inc., Morristown, NJ.

2010-12 Member, Scientific Advisory Board, ENVIRON International Corporation, Boston, MA.

2012-13 Scientific Advisor, inXsol, Phoenix, AZ.

2013-14 Consultant, Gateway Health Plan, Pittsburgh, PA.

2013-17 Consultant, City of St. Louis, St. Louis, MO.

2015-16 Member Expert Panel, Monsanto, St. Louis, MO.
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