

# David A. M. Sterling, PhD, CIH, ROH

## CURRICULUM VITA

### Work:

School of Public Health  
Salus Center, Saint Louis University Health Science Center  
3545 Lafayette Avenue  
St. Louis, MO 63104-1314

phone: (314) 977-8123  
fax: (314) 977-8150  
email: sterling@slu.edu

### EDUCATION

#### Degrees

Undergraduate work in Humanities, Sciences and Computer Science, Simon Fraser University, Vancouver, B.C., Canada.

B.Sc. Biological Sciences. December 1978, University of Oregon, Eugene, Oregon.

M.Sc. Environmental Health Science (Industrial Hygiene). August 1982, University of Cincinnati, Institute of Environmental Health, Kettering Laboratory, Cincinnati, Ohio.

Ph.D. Environmental and Occupational Health Science, emphasis in Toxicology, Epidemiology and Industrial Hygiene, June 1986, The University of Texas School of Public Health, Houston, Texas.

### WORK EXPERIENCE

TDS Ltd., Vancouver, B.C., Canada: **January 1975 to August 1981**: Environmental and Occupational Health Science and Industrial Hygiene Consultant.

University of Texas, Houston, Texas: **June 1982 to December 1983**: Senior Research Assistant and Field Studies Director for the Texas Indoor Air Quality Study of Manufactured Housing. Developed, implemented and supervised experimental and field investigations for indoor air quality contaminants (formaldehyde, general organic, other gases and aeroallergens) and affecting factors (air exchange rates, occupant activities, meteorology). **October 1981 to May 1984**: Graduate instructor of Industrial Hygiene Laboratory.

Illinois Institute of Technology Research Institute, Chicago, Illinois: **June 1984 to July 1987**: Research Chemist for projects in Industrial Hygiene, ambient and indoor air quality, asbestos, odor science and hazardous waste and materials. **August 1986 to July 1987**: Chicago Division Environmental Health and Safety Program Coordinator. Developed, implemented and managed Division health and safety policy and plans. Also, National Toxicology Program (NIEHS) recognized Health and Safety Officer for NTP projects.

Old Dominion University, Norfolk, Virginia: **August 1987 to July 1993**: Assistant Professor and Assistant Director for Programs in Environmental Health, College of Health Sciences. Responsible for further development and continuation of undergraduate courses, Development of Graduate Program and academic courses in Environmental and Occupational Health/Industrial Hygiene, development of continuing education and training courses, and research in Environmental and Occupational/Industrial Health Science. Consult and advise the University Environmental Health and Safety Department. **Teaching**: Average of four courses per academic semester, joint undergraduate and graduate level.

Saint Louis University, School of Public Health, St. Louis, MO. **October 2001 to Present**: Division Director, Environmental and Occupational Health, Department of Community Health. **February 2001 to Present**: Secondary Appointment, Associate Professor Department of Internal Medicine, Division of Pulmonary, Critical Care and Occupational Medicine. **July 2000 to Present** Research Scientist in the Center for the Study of Bioterrorism and Emerging Infections. **July 1999 to Present** Associate Professor, Environmental and Occupational Health, Department of Community Health. **August 1993 to November 1997**: Director of Center for Environmental Education and Training. This center offers courses in Lead inspection, risk assessment and abatement for residential housing, and other environmental and public health related education. **August 1993 to June 30 1999**: Assistant Professor: Develop and instruct graduate M.P.H. and Ph.D. courses, professional continuing education and training, and perform health-related research and practice in environmental and occupational health science areas.

## **OTHER PROFESSIONAL APPOINTMENTS**

Old Dominion University, Norfolk, Virginia: **August 2000 to Present:** Adjunct Associate Professor Department of Chemistry and Biochemistry.

Saint Louis University, St. Louis, MO, **December 1994 to Present:** Appointment to the Graduate Faculty at Saint Louis University with Ph.D. Mentor Status.

Eastern Virginia Medical School, Norfolk, Virginia, **October 1989 to December 1993:** Adjunct Assistant Professor, Department of Family and Community Medicine.

Virginia Commonwealth University/Medical College of Virginia, Richmond, Virginia, **January 1990 to December 1993:** Affiliate Assistant Professor, School of Basic Health Sciences, Department of Biostatistics and Biomedical Engineering.

Old Dominion University, Norfolk, Virginia, **August 1988 to July 1993:** Appointed as faculty to the Urban Services Ph.D. Program, Environmental and Occupational Health Track, College of Health Sciences. **February 1989 to July 1993:** Coordinator of Occupational/ Environmental Health and Safety Continuing Education and Training. Develop and continue programs; encourage faculty participation and expertise; liaison with professionals and professional associations in the community and university for program development and involvement; implement quality assurance controls for program improvements. **February 1990 to July 1993:** Appointed as faculty to the Biomedical Sciences Ph.D. Program, Vector Borne Diseases and Environmental Health Track, College of Sciences. **May 1990 to July 1993:** Joint adjunct faculty appointment, Department of Civil and Environmental Engineering, College of Engineering and Technology. **August 1993 to May 1994.** Adjunct Assistant Professor, Department of Community Health and Physical Therapy, College of Health Sciences.

## **PEER REVIEWED PUBLICATIONS**

Dynamic display of radiotherapy plans using computer produced films. Radiology, 107(3):689-691 (1973). T. Sterling, K. Knowlton, J. Weinkam and **DA Sterling**.

The effects of air control systems on the indoor distribution of viable particles. Environment International, 8:409-414 (1982). **DA Sterling**, C. Clark and S. Bjornson.

Health effects of chlorophenol wood preservatives on sawmill workers. International Journal of Health Services, 12(4):559-571 (1982). T. Sterling, L. Stoffman, **DA Sterling**, and G. Mate.

Perception of daily cigarette consumption in the office environment. Bulletin of the Psychonomics Society, 26(2):120-123 (1988). **DA Sterling**, D. Moschandreas and R. Gibbons.

Indoor air quality and health in two office buildings with different ventilation systems. Environmental International, 15:115-128 (1989). A. Hedge, T. Sterling, E. Sterling, **DA Sterling**, V. Nie.

Dichloroacetonitrile, a by-product of water chlorination, induces aneuploidy in drosophila. Mutation Research, 261(2):85-91 (1991). C. Osgood, **DA Sterling**.

Chrysotile and amosite asbestos induce germ-line aneuploidy in drosophila. Mutation Research, 261(1):9-13 (1991). C. Osgood, **DA Sterling**.

Scotchguard effects on pesticide removal from farmers work clothing during laundering. Journal of Occupational Hygiene, 1(3):167-175 (1994). S. Prior, G. Frazer, **DA Sterling**.

An alternative explanation for the apparent elevated relative mortality and morbidity risks associated with exposure to environmental tobacco smoke. Journal of Clinical Epidemiology, 49(7):803-808 (1996). T. Sterling, A. Glicksman, H. Perry, **DA Sterling**, W. Rosenbaum, J. Weinkam.

Behaviors and blood lead levels of children in a lead-mining area and a comparison community. Journal of Environmental Health, 60(6):14-20 (1998). AM Murgueytio, RG Evans, **DA Sterling**, F Serrano, D Roberts.

Pollen and fungal spores indoor and outdoor of mobile homes. Annals of Allergy, Asthma & Immunology, 80:279-285 (1998). **DA Sterling**, RD Lewis.

The relationship between lead mining and blood lead levels in children. Archives of Environmental Health, 53(6):414-423 (1998). AM Murgueytio, RG Evans, **DA Sterling**, SA Clardy, B. Shadel, BW Clements.

Source contribution of lead in housedust from a lead mining waste superfund site. Journal of Exposure Analysis and Environmental Epidemiology, 8(3):359-373 (1998). **DA Sterling**, DL Johnson, AM Murgueytio, RG Evans.

Evidence of large particle allergen inhalation from direct contact with surfaces. Annals of Allergy, Asthma & Immunology, 83 (1): 41-48 (1999). RD Lewis, **DA Sterling**, B King, L Hendershott, H Goodgold, P Hutcheson.

Evaluation of four sampling methods for determining exposure of children to lead contaminated household dust. Environmental Research, 80(2):130-141 (1999). **DA Sterling**, KC Roegner, RD Lewis, DA Luke, LC Wilder, SM Burchette.

- An artificial soiling system for evaluation of house dust, allergens, and lead retention on carpets and other surfaces. Applied Occupational and Environmental Hygiene, 14(12):845-851 (1999). RD Lewis, PN Breyse, **DA Sterling**, B King.
- Diffuse pleural thickening and effusion predict mesothelioma in asbestos-exposed individuals. JD Espiritu, GM Matuschak, **DA Sterling**, N Hobart, T Hyers, JM Ohar. American Journal of Respiratory and Critical Care Medicine, 159(3):A212 (1999) Suppl. S.
- Lead abatement training for underserved populations: Lessons learned. Applied Occupational and Environmental Hygiene, 15(2):217-227 (2000). **DA Sterling**, RD Lewis, F Serrano, K Dugbatey, RG Evans, LS Sterling.
- A Portable X-Ray Fluorescence Instrument For Analyzing Dust-Wipe Samples For Lead: Evaluation With Field Samples. Environmental Research, 83(2):174-179 (2000). DA Sterling, RD Lewis, DA Luke, BN Shadel.
- Association studies of serum PSA levels and the genetic polymorphisms at the androgen receptor and prostate-specific antigen genes. Cancer Epidemiology, Biomarkers & Prevention, 11(7):664-669 (2002). J Xu, DA Meyers, **DA Sterling**, SL Zheng, WJ Catalona, SD Cramer, ER Blecker, J Ohar.
- Germline mutations and sequence variants of the macrophage scavenger receptor 1 gene are associated with prostate cancer risk. Nature Genetics, 32(2):321-325 (2002). J Xu, L Aheng, J Mychaleckyj, SD Isaacs, DA Faith, JJ HU, **DA Sterling**, EM Lange, GA Hawkins, A Turner, et al.
- Association between genetic polymorphism in the prostate-specific antigen gene promoter and serum prostate-specific antigen levels. Journal of the National Cancer Institute, 95(14):1044-1053 (2003). SD Cramer, BL Chang, A Rao, G Hawkins, SL Zheng, WN Wade, R Cooke, LN Thomas, ER Blecker, WJ Catalona, **DA Sterling**, DA Meyers, J Ohar, J Xu.
- Changing patterns in asbestos-induced lung disease. Chest, accepted July, 2003. J Ohar, **DA Sterling**. E Blecker, J Donohue.

### ***Manuscripts in Preparation, Submitted and Under Review***

- Evaluation of Cleaning and Health Education to Reduce Childhood Lead Poisoning. Submitted to Arch Env Health, March 2003. RG Evans, BN Shadel, **DA Sterling**, B Arndt, F Serrano, J Chen, L. Harris.
- Bioterrorism and emerging infections: Occupational physician awareness, perception and information needs. **DA Sterling**, B Clements, T Rebman, BN Shadel, R Thomas, RG Evans. In preparation for Journal of Occupational Medicine, 2003.
- Single versus composite wipe dust wipe samples for lead exposure: Does it make a difference. **DA Sterling**. In preparation, 2003.

### ***EDITOR REVIEWED PUBLICATIONS (BOOKS, JOURNALS, MAGAZINES, OTHER)***

- \* Invited manuscript
- \* Volatile organic compounds in indoor air: An overview of sources, concentrations, and health effects. In: Indoor Air and Human Health, R. Gammage and S. Kaye, Eds., Lewis Publishers, Inc., Chelsea, MI, 1985, PP. 387-402. **DA Sterling**.
- \* First came occupational hygiene data: Epidemiology. Occupational Safety & Health Canada, 3(3):33-34 (1987). **DA Sterling** and T. Sterling.
- \* Overview of health and safety in the health care environment. Invited first chapter, In: Essentials of Modern Hospital Safety, Volume III, B. Charney, ed., Lewis Publishers, Inc., Chelsea, MI, 1994, PP. 1-14. **DA Sterling**.
- \* The role and function of the continuing education committee. The Synergist, January 1996:36. **DA Sterling**.

### **PRESENTATIONS WITH PUBLISHED ABSTRACTS AT PROFESSIONAL MEETINGS** (Since 1997. Complete list available on request.)

- \* Invited speaker; Presenter is underlined
- Information Technology: Data Collection and Management - An Overview. Presentation at the American Industrial Hygiene Symposia on Information Technology, Dallas, TX, May 17, 1997. DA Sterling.
- Big river mine tailings superfund site: A lead exposure study. Tenth Conference of the International Society for Environmental Epidemiology and Eighth Conference of the International Society of Exposure Analysis, Boston, MA, August 15-18, 1998. RG Evans, BN Shadel, SA Clardy, AM Murgueytio, DA Sterling.
- Diffuse pleural thickening and effusion predict mesothelioma in asbestos-exposed individuals. American Thoracic Society International Conference, April 23-28, 1999, San Diego, CA. JD Espiritu, GM Matuschak, DA Sterling, N Hobart, T Hyers, JM Ohar.

- Contribution of lead particles in house dust from lead mining waste and lead-based paint at a superfund site: Part two. American Industrial Hygiene Conference & Exposition, June 8, 1999, Toronto, Ont., Canada. DA Sterling, DL Johnson, MS Bloomfield.
- Evaluation of four sampling methods for determining exposure of children to lead contaminated household dust. Indoor Air 99: The 8<sup>th</sup> International Conference on Indoor Air Quality & Climate, August 8-13, 1999, 2:748-753. Edinburgh, Scotland. DA Sterling, KC Roegner, RD Lewis, DA Luke, LC Wilder, SM Burchette.
- Use of a portable XRF instrument for analysis of household dust-wipes for lead: evaluation of field samples. Indoor Air 99: The 8<sup>th</sup> International Conference on Indoor Air Quality & Climate, August 8-13, 1999, 2:754-757. Edinburgh, Scotland. DA Sterling, RD Lewis, DA Luke, BN Shadel.
- Blood lead levels in children attending daycare centers compared to children staying at home. Eleventh Conference of the International Society for Environmental Epidemiology (ISEE) and Ninth Conference of the International Society of Exposure Analysis (ISEA), Athens, Greece, September 5-8, 1999. RG Evans, AM Murgueytio, F Serrano, DA Sterling, BN Shadel.
- Contribution of lead particles in house dust from lead mining waste and lead-based paint at a superfund site: Part two. American Public Health Association, November 9, 1999. DA Sterling, DL Johnson, MS Bloomfield.
- Diffuse pleaural thickening and effusion predict mesothelioma in asbestos-exposed individuals. Presented Lung Association and American Thoracic Society International Conference, San Diego, CA, May 5-10, 1999. JD Espiritu, GM Matuschak, DA Sterling, N. Hobart, T Hyers, JM Ohar.
- Radiographic progression of asbestosis. Presented American Lung Association and American Thoracic Society International Conference, Toronto, ON, April 23-28, 2000. GE Liang, DA Sterling, J Chen, JA Ohar.
- An artificial soiling system for evaluation of house dust, allergens, and lead retention on carpets and other surfaces. American Industrial Hygiene Conference & Exposition, May 22-26, 2000, Orlando, FL. RD Lewis, PN Breysse, DA Sterling, B King.
- A Method for the Recovery of Lead in Carpet. American Industrial Hygiene Conference & Exposition, May 22, 2000, Orlando, FL. RD Lewis, O Nweke, DA Sterling, J Siria,, S Long.
- \*Removal of lead contaminated dust from carpets and upholstery. HUD Lead Grantees Conference 2000, December 13, 2000, Atlanta, GA. RD Lewis, DA Sterling, S Condor, J Batek, A Bernhart, O Nweke.
- Development of asbestos-induced radiographic abnormalities in a prescreened population. American Thoracic Society Conference, San Francisco, CA, May 18-23, 2001. GE Liang, N Hobart, DA Sterling, JA Ohar.
- COPD and TNF- $\alpha$  receptor gene polymorphism in asbestos-exposed workers. . American Thoracic Society Conference, San Francisco, CA, May 18-23, 2001. JD Espiritu, DA Sterling, N Hobart, E Blecher, P Dettenmeire, K Franke, JA Ohar.
- The center for the study of bioterrorism and emerging infections at Saint Louis University School of Public Health: A focused effort toward bioterrorism and public health preparedness. American Public Health Association 129<sup>th</sup> Annual Meeting, Atlanta, GA, October 21-25, 2001. RG Evans, BW Clements, B Shadel, DA Sterling, T Rebmann, S Prichard, L Sterwart, G Carrol.
- IL-13 polymorphism: Predisposition towards COPD & asbestos-induced diseases. Annual Congress of the European Respiratory Society. Berlin, Germany, September 22-26, 2001. JA Ohar, ER Bleeker, TH Howard, SL Zheng, DA Meyers, DA Sterling, et al.
- The new face of asbestos. Accepted - American Thoracic Society Conference, Atlanta, GA, May 17-22, 2002. JA Ohar, DA Sterling, ER Bleeker, J Donohue.
- Recent smoking trends in asbestos-exposed individuals. American Thoracic Society Conference, Atlanta, GA, May 17-22, 2002. GE Liang, JA Ohar, DA Sterling, J Donohue, ER Bleeker.
- Bioterrorism and Emerging Infections: Occupational physician awareness, perception and information needs prior to and following September 11. American Industrial Hygiene Conference & Exposition, June 4, 2002, San Diego, CA. DA Sterling, B Clements, T Rebman , BN Shadel, LM Stewart, R Thomas, RG Evans.

## **SELECTED PRESENTATIONS AND OTHER REPORTS (Non Peer Reviewed)**

Since 1995. Complete list available on request.

\* Invited speaker or paper; Presenter is underlined.

\*Environmental Hazards and Toxicology. Presenter and Host to the Youth Leadership St. Louis Program for High School Juniors., St. Louis, MO, February 11, 1995. DA Sterling.

Efficacy of EPA-Equity Worker Lead Training. Presented at the EPA Lead Worker Training Grant Conference. Washington DC, May 9, 1996. DA Sterling.

Related activities to evaluating and controlling lead exposures. Presented to the Model 200 Lead Task Force Meeting, St. Louis, MO, October 16, 1997. DA Sterling.

Studies to determine sources and predictors of lead poisoning in young children: Comparison of children attending day care centers and children not attending day care. Final performance report #U67/CCU710792-02 to the

Centers for Disease Control and Prevention, Atlanta, GA, October, 1997. A.M. Murgueytio, **DA Sterling**, F. Serrano, R.G. Evans.

- \*Environmental concerns in residential real estate - roundtable discussion leader. Saint Louis University School of Public Health, St. Louis, MO, May 20, 1998. DA Sterling.
- Big River mine tailings superfund site lead exposure study, St. Francois county, Missouri. Final report NTIS publication number PB98-146335, June 1998. A.M. Murgueytio, S.A. Clardy, **DA Sterling**, B.N. Shadel, B.W. Clements, R.G. Evans.
- \*Lead emissions in St. Francois County – Source apportionment. Presented at the Environmental Engineering Seminar Series, Washington University, School of Engineering & Applied Science, St. Louis, MO, January 29, 1999. DA Sterling.
- \* Lead exposure to children in St. Francois County: Contribution of Chat Piles. Presented at the Southeast Missouri State University, Environmental Sciences Symposia Series, Cape Girardeau, MO, April 28, 1999. DA Sterling.
- \*Selikoff foundation research update. JM Ohar, DA Sterling, N Hobart, JD Espiritu, G Liang. Environmental Law 2<sup>nd</sup> Annual Mid-Winter Seminar - Asbestos Update, Honolulu, HI, January 28-31, 2000.
- \*Session facilitator, June 28. Improving environmental health curricula and practice at schools of public health. Organized by the ASPH Council of Environmental and Occupational Health, co-sponsored by HRSA, CDC and NIEHS(NIH), Washington, DC, June 28-30, 2000. DA Sterling.
- \*There's too much noise, I can't hear you! Workshop presented at the Workers Memorial Safety Conference. Saint Louis University, University of Missouri, St. Louis Labor Council, AFL-CIO. St. Louis, MO, July 1, 2001.

## GRANTS AND CONTRACTS AWARDED

Since 1995. Complete list available on request.

- D. Sterling (CoPI)**, A.M. Murgueytio (PI), R. G. Evans (CoPI), Saint Louis University School of Public Health. Determination of Sources and Predictors of lead Poisoning in Young Children. Centers for Disease Control and Prevention, Atlanta, GA. October 1994 to September 1996. \$348,239.
- D. Sterling (CoPI)**, R.G. Evans (PI), A. Murgueytio (CoPI), Saint Louis University School of Public Health, Investigation of Lead Exposure in the Bootheel area of Missouri. Agency for Toxic Substances and Disease Registry, Atlanta, GA, and the Missouri Department of Health, Jefferson City, MO, October 1994 to September 1996. \$363,382.
- D. Sterling (PI)**. Saint Louis University School of Public Health. Graduate Fellowship Grant Award in Industrial Hygiene. American Industrial Hygiene Foundation, Fairfax, VA, August 1995 to May 1996. \$1,000 with matching SLU/SPH grant of \$1,000.
- D. Sterling (PI)**. Saint Louis University School of Public Health. Characterization of Pollen and Spore Aeroallergens in Occupied Manufactured Housing. Beaumont Faculty Development Fund, Saint Louis University, St. Louis, MO, May 15, 1995 to April 15 1996, \$2,035.
- D. Sterling (PI)**. Saint Louis University School of Public Health. Human and Environmental Lead Levels in St. Francois County, Missouri. Doe Run Company, Viburnum, MO, July 1, 1995 to June 30, 1996, \$128,520.
- D. Sterling (PI)**, F. Serrano, R. Lewis. Equity-Based Training Grant For Lead Paint Abatement Workers. Environmental Protection Agency, Washington, DC, November 1, 1995 to March 31, 1997, \$156,000.
- D. Sterling (PI)**. Saint Louis University School of Public Health. Graduate Fellowship Grant Award in Industrial Hygiene. American Industrial Hygiene Foundation, Fairfax, VA, August 1996 to May 1996. \$750 with matching SLU/SPH grant of \$750.
- D. Sterling (Co-PI)**, R.G. Evans (PI). Saint Louis University School of Public Health. Design and Implementation of Cost-Effective Abatement Strategies and Interim Lead Hazard Controls for Selected Residences in St. Francois and Jasper Counties, MO. US Housing and Urban Development, Washington, DC, April 1, 1997, \$2,306,894. Duration 3 years. Salary support 20%
- D. Sterling (PI)**. Saint Louis University School of Public Health. Illinois Department of Health Lead Risk Assessment Methods Education and Training. Illinois Department of Health, Springfield, IL, May 1 to June 30, 1997, \$5,950. Salary support 0%.
- D. Sterling (Co-PI)**, G Matuschak (PI). Saint Louis University Health Sciences Department of Pulmonary Medicine. Asbestos Exposure in the Workplace: Effects on lung function, development of cancer, and impact of smoking cessation. Group Health Foundation, St. Louis, MO, 1997, October 1 to September 30, 1998, \$39,947. Salary support 5%.
- D. Sterling (Co-PI)**, R.G. Evans (PI), K. Dugbatey (Co-Investigator). Studies to Evaluate Primary Prevention of Childhood Lead Poisoning. Centers for Disease Control, Atlanta, GA, 1997, October 1, 1997 to September 30, 2001, \$1,119,894. Salary support 10%.

- D. Sterling (PI).** Saint Louis University School of Public Health. Size range and mass distribution of lead in house dust in rural and urban environments. Beaumont Faculty Development Fund, Saint Louis University, St. Louis, MO, May 1, 1998 to May 30, 2000, \$4,907. Salary support 0%.
- D. Sterling (PI), C. King.** Saint Louis University School of Public Health. Assessing waste water options for small communities. US Environmental Protection Agency, Washington, DC, October 1, 1998 to September 30, 1999, \$19,998. Salary support 0%.
- D. Sterling (Co-PI), R. Lewis (PI).** The removal of lead contaminated dust from hard surfaces. US Department of Housing and Urban Development, Office of Lead Hazard Control, Washington, DC, July 1, 1999 to June 30 2000, \$361,100. Salary support 5%.
- D. Sterling (PI).** Investigations of an asbestos exposed worker cohort. Irving J. Selikoff Foundation, Saint Louis University. August 1, 1999 to July 31, 2000, \$17,000. Salary support 0%.
- D. Sterling (PI), J. Ohar, W. Catalona, B. Evanoff, M. Shootman.** Detection of predictors for the development of prostate cancer among asbestos exposed individuals. Developmental Research Awards for Multi-Institutional Collaborative Projects 2000-2001 AMC-SLU-WashU. January 1, 2000 to December 31, 2000, \$20,000. Salary support 0%.
- D. Sterling (Research Scientist), RG Evans (PI).** Center for the study of Bioterrorism and emerging infections. CDC, September 2000 – August 2002, \$800,000. Salary support 10%.
- D. Sterling (Consulting Epidemiologist), W. Schmidt, Jasper County Health Department (PI).** Multiple Schlerosis and the Amoco Refinery in Sugar Creek, Missouri. CDC/ATSDR. October 1, 2000 – September 30, 2002 \$173,179. Salary support 2.5%.
- D.A. Sterling (Co-Investigator), Mario Castro (WashU, PI).**Controlling Asthma in American Cities Project. Centers for Disease Control and Prevention. Duration October 1, 2001 – September 30, 2003, \$227,975. Salary support 10%.
- D. Sterling (Research Scientist), RG Evans (PI).** Center for the study of Bioterrorism and emerging infections. CDC, September 2002 – August 2003, \$800,000. Salary support 10%.
- D. Sterling (PI).** St. Louis Air Pollution and Health Study (SLAPHS). Electric Power Research Institute. September, 2002 – March, 2004, \$175,562. Salary support 25%.
- D. Sterling (PI).** Research Scientist Consultant to Department of Pulmonary and Occupational Pulmonary Medicine pertaining to Occupational Respiratory Diseases, specifically Asbestos. Selikoff Foundation. January 2003 – December 2003. Salary support 15%.

## PEER REVIEWER

Research Advisory Council, Research Funding Program, Workplace safety and Insurance Board, Government of Ontario, Canada, January 2000 - Present.

Journal of Environmental Health, June 1999-Present.

American Industrial Hygiene Association Journal. February 1997 - Present.

Advisory Review Board for Industrial Hygiene text and reference book publication, American Industrial Hygiene Association, 1995 - Present.

Editorial Reviewer for Publications from the American Industrial Hygiene Association, Fairfax, VA, 1990 - Present.

National Toxicology Program, Chemical Health and Safety Section, NIEHS, CDC, Research Triangle Park, NC. Reviewer of proposals for performance of inhalation studies from NTP RFP's. February 1990 - 1999.

National Toxicology Program, Chemical Health and Safety Section Manuscripts, NIEHS, CDC, Research Triangle Park, NC. Reviewer of manuscripts submitted for publication, presentation or authorship. November 1989 - 1999.

Journal of the American Conference of Governmental Industrial Hygienist, Applied Occupational and Environmental Hygiene. Reviewer for submitted manuscripts, July 1989 to August 1991.

## ACADEMIC INSTRUCTION (Since August 1993)

<u>Number</u>	<u>Title</u>	<u>Semester/Year</u>
CMH G544	Human Health Risk Assessment	Fall 1993 to Present
CMH G547	Industrial Hygiene II	Spring 1994
CMH G598	Risk Communication	Spring 1994
EOH G598	Readings in Environmental Health	Summer 1994
EOH G540	Human Health Risk Assessment	Fall 1994 to Present
EOH G520	Environmental Hazards	Fall 1994 to 2002, Spring 2003 to Present
CMH G595	Graduate Studies	Fall 1994, Summer 1995

EOH G595	Graduate Studies in Environmental Health	Spring 1995, 1997
EOH G640	Exposure Assessment Methodologies	Summer 1996 to 2001 (Odd years), Summer 2003 to Present
EOH G597	Research Topics	Spring 1996, Summer 1998, Fall 1998, Spring 1999
EOH G529	Environmental Laboratory	Summer 1996 to 2002 (Even years)
EOH G594	Environmental Internship	All semesters 1994 to Present
HA G518	Managerial Environ. & Occup. Health	Spring 2002 to Present

## THESIS, DISERTATION AND EXAMINATION COMMITTEES

### **Committee Member**

- Scott R. Sechrist. Identification and ranking of stressors in Nuclear Medicine. **M.Sc.** in Community Health Education, Old Dominion University, August 1989.
- Roxanne Francis. Electrostatic effects on airborne asbestos monitoring. **M.Sc.** in Biology with emphasis in Industrial Hygiene, Old Dominion University, December 1989.
- Vicki H. Harlow. Occupational exposure to antineoplastics. **M.Sc.** in Community Health with emphasis in Industrial Hygiene, Old Dominion University, May 1990.
- Sandra Prior. Pesticide residual in clothing of agricultural workers after washing treated and untreated with 3M product. **M.Sc.** in Community Health with emphasis in Industrial Hygiene, Old Dominion University, August 1990.
- John Austin. Characteristics of selected individuals that facilitate the successful adoption of meaningful public policy concerning the environment. **Ph.D.** Urban Studies with emphasis in Environmental Health, Old Dominion University, May 1993.
- Treasa M. Turnbeaugh, MPH, MS, CSP. Needlestick Safety: Impact of the health belief model, locus of control, and policy on needlestick occurrence among non-physician emergency room and operating room personnel. **Ph.D.** Health Services Research with emphasis in Environmental and Occupational Health, Saint Louis University School of Public Health, May, 1995.
- Brooke N. Shadel, MPH. Dioxin incinerator emissions exposure study Times Beach, Missouri. **Ph.D.** Health Services Research, Concentration in Epidemiology and Biostatistics, Saint Louis University School of Public Health, February, 2000.
- Mark Bloomfield. Environmental exposure mapping and evaluation using GIS. **M.Sc.** in Geography, Southern Illinois University, Edwardsville, Proposal approved September 1997, draft submitted 2001.

### **Committee Chair**

- Sonya Seward. Evaluation of quantitative fit testing using through the facepiece probe and through the cartridge probe. **M.Sc.** in Community Health with emphasis in Industrial Hygiene, Old Dominion University, August 1990.
- Suzanne Pisarik. **M.Sc.** Industrial Hygiene, Medical College of Virginia, May 1993.
- Chris Rennix. Particle size distribution of dusts generated during paint removal projects. **M.Sc.** in Community Health with emphasis in Industrial Hygiene, Old Dominion University, August 1993.
- Lauri Eckenrode. Validation of a bag sampling method for 1,3-Butadiene. **M.Sc.** in Community Health with emphasis in Industrial Hygiene, Old Dominion University, December 1993.
- Anna K. Shore. Lead contamination of the Elizabeth river determined by the examination of the Blue Crab, *Callinectes sapidus*, using graphite furnace atomic absorption. **M.Sc.** in Community Health with emphasis in Industrial Hygiene, Old Dominion University, May 1994.
- Vince Fleming. An assessment of four-hour sample duration's to determine OSHA noise permissible exposure limit compliance. **M.Sc.** in Community Health with emphasis in Industrial Hygiene, Old Dominion University, May 1994.
- Judy Hinch. The identification and magnitude estimation of occupational stressors in the industrial hygiene profession. **M.Sc.** in Community Health with emphasis in Industrial Hygiene, Old Dominion University, May 1994.
- Allen Bradshaw. Validation of a solid phase extraction procedure for total hydrocarbon content in ChemCrest 200 used for shipboard piping system cleaning. **M.Sc.** in Community Health with emphasis in Industrial Hygiene, Old Dominion University, August 1994.
- Liana Roman, MPH. Characterizing the impact of antibiotic cycling on antimicrobial resistance. **Ph.D.** in Public Health Science, concentration in Environmental and Occupational Health, Saint Louis University School of Public Health. Draft dissertation proposal submitted February 2002.

Sheniz Moonie, MS. Association between asthma, absenteeism, and academic performance in school-aged children  
**Ph.D.** in Public Health Science, concentration in Epidemiology, Saint Louis University School of Public Health.  
Dissertation proposal approved March 2003.

### **Graduate Practicum Advisor**

Ongoing basis – information supplied on request.

### **Doctoral Comprehensive Examination Reader**

Karen Barney. Environmental and Occupational Health Concentration, July 13, 1995.  
Steve Kymes. Health Services Research, May, 2001.  
Brent Ibata. Environmental and Occupational Health Concentration, February 15 and August 28, 2002.  
Liana Roman. Environmental and Occupational Health Concentration, August 28, 2002.  
Nermean El-Beltagy. Environmental and Occupational Health Concentration, February 14, 2003.

### **Doctoral Oral Comprehensive Examination Committee Member**

Nermean El-Beltagy. Environmental and Occupational Health Concentration, May 30, 2003.  
Susie Nanney. Behavioral Science/Health Education Concentration, July 11, 2003.

## **PROFESSIONAL AFFILIATIONS**

American Industrial Hygiene Association (AIHA), 1982 to present.  
Publishing Process Task Force, Chair 2001-2002.  
Continuing Education Committee, 1987 to 1991, and 1993 to 1997 (Vice Chair 1994-1995, Chair 1995-1996).  
New Course Subcommittee, 1987 - 1991.  
CoChair, New Course Subcommittee, 1987 to 1989.  
Chair, Ad Hoc - Ethics Subcommittee, 1989 to 1990.  
Chair, Ad Hoc - Technical Committee liaison development, 1993 to 1994.  
Chair, Ad Hoc - Fundamentals course review, 1993 to 1995.  
Chair, Membership subcommittee, 1994-1996.  
Chair, Nomination subcommittee, 1994-1996.  
Probation review subcommittee, 1994-1996.  
Written Publications Review subcommittee, 1994-1996.  
Committee Chair, 1995-1996.  
Information Technology Subcommittee, 1996-1997.  
Chair, Ad Hoc Information Technology Symposia Committee, 1996-1997.  
Co-Chair, Information Technology Symposia Development for presentation May 1997. 1996 to May 1997.  
Publications (formerly Editorial) Committee 1990 to present (Secretary 1999-2000, Vice Chair, 2000-2001, Chair 2001-2002, Past Chair 2002-2003).  
Chair, Alternative Publication Methodologies, 1996-1997.  
Tidewater Local Section, 1987 to 1994.  
Board of Directors, 1992 to 1994.  
St. Louis Local Section, 1994 to present.  
Director – 3 year position 2001-2004.  
Advisory Review Board for Industrial Hygiene text and reference publication, 1995 to 1998.  
Air and Waste Management Association (AWMA), 1982 to 1995.  
American Occupational Medical Association (AOMA), 1983 to 1995.  
American Conference of Governmental Industrial Hygienists (ACGIH), 1984 to Present.  
American Society for Testing and Materials (ASTM), 1985 to 1990.  
Indoor Air Quality Committee D-22, 1985 to 1990.  
American Board of Industrial Hygienists (ABIH), 1985 to Present.  
American Academy of Industrial Hygiene (AAIH), 1988 to Present.  
American Association for the Advancement of Science (AAAS), 1990 to 1995.  
International Society of Environmental Epidemiology (ISEE), 1995 to Present.  
International Society of Exposure Analysis (ISEA), 1995 to Present  
Missouri Public Health Association (MPHA), 2000 to 2003.

Society of Toxicology, Midwest Region, 1994 to 1996.

## **HONORS AND AWARDS**

The University of Cincinnati Marathon Oil Fellowship, 1979 to 1980.

The University of Cincinnati Graduate Scholarship, 1979 to 1980.

National Institute for Occupational Safety and Health Traineeship, 1981 to 1982.

Included in Who's Who in the Safety Profession, 1990, 1991, 1992. National Security Institute, Framingham, MA.

Four Year Term Board of Directors, American Lung Association, Southeastern Region, June 1991 to May 1995.

Listed in Who's Who In the South and Southwest, 1993, 1994. Marquis Who's Who, New Providence, NJ.

Listed in Who's Who in the Midwest, 1996, 1997, 1998, 1999. Marquis Who's Who, New Providence, NJ.

Listed in Who's Who in the World, 1999, 2000, 2001. Marquis Who's Who, New Providence, NJ.

Listed in Who's Who in American Education, 2003. Marquis Who's Who, New Providence, NJ.

Listed in Who's Who in Health Sciences Education, 2003. Academic Keys at healthsciences.academickeys.com.

Outstanding Committee Recognition, American Industrial Hygiene Association (Continuing Education 1996-1997), (Publications Committee 1999, 2000).

## **UNIVERSITY SERVICE** (Since January 1994)

### ***University***

Health Sciences Library Committee, 1994 - Present.

Search Committee for Director of Health Sciences Library, Fall 1995 - Spring 1996.

Book donation from Government Institute, Inc., to Health Sciences Library, approximate worth \$1,000, Summer 1997.

Institutional Review Board, North Campus back-up, Fall 2000 – 2002.

Saint Louis University Faculty Senate representative from School of Public Health, Fall 2001 – 2003.

University Institutional Review Board, Fall 2002 – 2004.

### ***School of Public Health***

Research Committee, 1994 – 1997, Fall 2000 – 2002.

Ad-hoc Committee Chair on SLU-SPH WWW Home Page, Fall 1995 – Fall 1997.

Recruitment Visit: University of Missouri, Columbia, Department of Industrial Engineering, April 23, 1998.

Recruitment Visit: SE Missouri State University, Department of Environmental Science, April 28, 1999.

Recruitment visit: Murray State University, Department of Occupational Safety and Health, September 25-26, 2000.  
Development of Managerial Environmental and Occupational Health Course Curricula for MHA program, Summer 2000.

Tenure and Promotion Committee, Fall 1999 – Present

Faculty advisor (elected by students) to the SLUSPH Doctoral Student Association (PHEBBE), August 2001-2003.

Health Management and Policy Faculty search committee member representing Department of Community Health, October 2001 – 2002.

Member faculty candidate search committee for Health Management and Policy, 2001-2002.

Interview of Occupational Medicine Resident Program candidates. 2000, 2001, 2002.

Coordinating Committee Member, Fall 2001 – Present.

Oversee Eliminating Disparities student research experience, Fall 2002-2003.

Protocol Preparation Committee Member, Spring 2003 – Present.

President School of Public Health Faculty Assembly – May 2003 – July 2004.

### ***Department of Community Health***

Comprehensive oral examination for M.P.H. candidates, faculty examiner, Spring 1994, Spring 1995, Fall 1995, Spring 1996, Fall 1996, Spring 1997, Fall 1997, Spring 1998, Fall 1999, Spring 2000, Fall 2000, Spring 2001, Summer 2002, Spring 2002, Spring 2003.

Chair faculty candidate search committee for Environmental and Occupational Health, Division, 1993 - 1994.

### ***Division of Environmental and Occupational Health***

Equipment donation from Mallickrodt, Inc., approximate worth \$5,000, Summer 1996.

Chair, search committee for Director/coordinator of the Center for Environmental Education and Training, 1997.

Equipment donation from Chrysler Motors, approximate worth \$5,000, Summer 1998.

Division Director, Fall 2001 – Present.

## COMMUNITY SERVICE

Numerous media interviews and presentations. (Additional listings supplied on request).

Advisor to the Eastern Virginia medical School of the Medical College of Hampton Roads, Norfolk, VA, Employee Health Committee. 1987 to December 1993.

Elected for four year term Board of Directors, American Lung Association, Southeastern Region, June 1991.

Investigation of a Legionellae outbreak for the Missouri Department of Health, October 27, 1994.

Presenter and Host to the Youth Leadership St. Louis Program for High School Juniors, on Environmental Hazards and Toxicology. St. Louis, MO, February 11, 1995.

St. Louis Science Fair Judge for Industrial Hygiene Association, St. Louis Local Section, grades 6 through 12, April 15, 1994; April 21, 1995, April 2002.

Investigation of formaldehyde exposure to resident in a Mobile Home for the Missouri Department of Health and St. Francis County Health Department. April - May 1996.

Investigation of indoor air quality exposure for Ralston Energy Systems Employee, Geneva, Switzerland, October - November 1996.

Public release information sessions for Big River Lead Superfund Site Investigation - Media, Government, Public Groups, Residents, at Mineral Area College, Delodge, MO, June 26, 1997.

Related activities to evaluating and controlling lead exposures. Presented to the Model 200 Lead Task Force Meeting, St. Louis, MO, October 16, 1997.

Investigation for exposure source of elevated blood lead levels in children, St. Louis City Health Department, February 1998, March 1998.

Helped facilitate Workers Memorial Conference sponsored by Saint Louis University, University of Missouri, St. Louis Labor Council and AFL-CIO. St. Louis, MO, April 27, 2000; May 1, 2001.

Participated as Health Expert in Service Chat Room response for WebMDHealth on lead exposure and intervention issues in St. Louis, MO. (<http://my.webmd.com>), May 1- 7, 2000.

Interviewed by KSDK-TV Channel 5 discussing lead poisoning rates and risks in St. Louis homes, July 6, 2000.

Interviewed by KSDK-TV Channel 5 about possible contamination of a water supply, August 18, 2000.

Interviewed by WIL News Radio St. Louis, MO, on carbon monoxide poisoning, what is it and how to avoid it, December 12, 2000.

Interviewed by KSIS radio, Sedalia, MO, on carbon monoxide poisoning, what is it and how to avoid it December 21, 2000.

Interviewed by Channel 2 Fox news (Chris Regnier) Nov. 27 and Nov. 28 2001, on KTVI-TV Channel 2 regarding an investigation that found excessive levels of lead in children's jewelry.

Interviewed by Channel 2 Fox news (Tracy McKinney) December 10, 2001 on KTVI-TV Channel 2 lead on Christmas light chords.

St. Louis Asthma Consortium: Gathering Information Committee, October 2001 to Present.

Presentation to the Herculaneum Doe Run Community Advisory Panel, March 8, 2002.

Missouri Department of Health and Senior Services, Asthma Advisory Board, July 2002 – Present.

Testing for nicotine outside of smoking lounges at Lambert Airport on request of the Tobacco Free Missouri-Greater St. Louis Coalition. March 2003.

Interviewed by Post Dispatch concerning cigarette smoking and measuring for exposure at Lambert Airport. March 10, 2003.

Key not speaker Brownfield Graduation class at the Saint Louis University School of Public Health Center for Environmental Education and Training Program. April 3, 2003.

Interviewed by Post Dispatch (Tina Hesman) and Medical Minute concerning PSA testing and genetic influences. June 16 and 17, 2003.

## PROFESSIONAL SERVICE

Participation in the Eastern Virginia Medical School "Occupational Health and Consulting Service Program". 1987 to December 1993

Environmental and occupational consultant to the College of Health Sciences - Health Clinic, Old Dominion University, Norfolk, VA. March 1989 to December 1993.

Assisted in validation of the EPA National Lead Certification Examination, July – December 1995.

American Industrial Hygiene Association (Also see Professional Affiliations)

Advisory Review Board for Industrial Hygiene text and reference book publication, 1995 - 2002.

Symposia Committee for "Information Technology Symposia" held May 1997, May 1995 - 1997.

Course auditor for selected new and revised professional development courses, 1987 - 2000.  
Course director for Fundamentals of Industrial Hygiene professional development course, 1989 - 1998.  
Course instructor for Fundamental of Industrial Hygiene professional development course, 1989 - 1998.  
Committee memberships, 1987 - Present.  
Symposia Committee for “Environmental Concerns in Residential Real Estate” held May 20, 1998.  
Reviewer for ASPH internship/fellowship programs, 1995, 1996, 1997, 1999.  
Air and Waste Management Association 92<sup>nd</sup> Annual Meeting and Exhibition, St. Louis, MO – Judge for student poster presentations June 21, 1999.  
NIOSH Healthcare Stakeholder Meeting, February 27, 2002, Baltimore, MD. Invited participant.  
Consultant and presenter for Herculaneum Community Based Focus Groups, arranged through USEPA, October 1, 2002 – Present.

## **PRESENTATION OF GUEST LECTURES, CONTINUING EDUCATION AND TRAINING INSTRUCTION**

(Since January 1994. Developed, coordinated and/or instructed over 22 courses from 1987 through 1993. Complete list available on request).

Lead Inspector Training. (USEPA approved and Missouri and Illinois Accredited 3-day course curriculum). Sponsored by Saint Louis University School of Public Health, Division of Environmental and Occupational Health. St. Louis, MO., September, 1994 to December 1999, approximately every 3 months.  
Fundamentals of Industrial Hygiene. Sponsored by the American Industrial Hygiene Association. Virginia Beach, VA., November 7-11, 1994.  
Lead Worker and Contractor/Supervisor Training (USEPA approved and Missouri and Illinois Accredited 3-4/4-5-day course curriculum and State of Missouri Accredited). Sponsored by Saint Louis University School of Public Health, Division of Environmental and Occupational Health. St. Louis, MO., December 1994 to December 1999, approximately every 3 months.  
Lead Inspector Refresher. (USEPA approved and Missouri and Illinois Accredited 1-day course curriculum). Sponsored by Saint Louis University School of Public Health, Division of Environmental and Occupational Health. St. Louis, MO. September, 1995 to September 1999, approximately every 3 months.  
Educating Physicians in Occupational Health and the Environment. Saint Louis University Health Sciences Center, St. Louis, MO, June 8-9, 1995.  
Fundamentals of Industrial Hygiene. Sponsored by the American Industrial Hygiene Association. St. Louis, MO. November 6-10, 1995.  
Fundamentals of Industrial Hygiene. Sponsored by the American Industrial Hygiene Association. Williamsburg, VA. July 15-19, 1996.  
Lead Risk Assessor. (USEPA approved and Illinois accredited - 2 day course curriculum) Sponsored by Saint Louis University School of Public Health, Division of Environmental and Occupational Health. St. Louis, MO. November 1996 to December 1999, approximately every 3 months.  
Fundamentals of Industrial Hygiene. GM - United Auto Workers. Blake Lake, MI, March 17-21, 1997.  
Certified Chemical Hazardous Materials Manager Review – Federal regulations of chemicals. Sponsored by Saint Louis University and the Gateway Society of Hazardous Materials Managers, St. Louis, MO. November 1-3, 2000.  
Asthma in Schools: Planning, process and barriers. Presented to Eliminating Disparities course CMH 544, February 27, 2003.  
Environmental Health Hazards. Presented to the School of Nursing, March 6, 2003.