

BIOGRAPHICAL SKETCH

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NAME	POSITION TITLE
Laurence J. Fuortes	Professor
eRA COMMONS USER NAME	

EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Northern Illinois University, DeKalb, IL	B.S.	1976	Biophysics
University of Illinois, Rockford, IL	M.D.	1980	Medicine
University of Iowa, Iowa City, IA	M.S.	1987	Preventive Medicine and Environmental Health

A. Positions and Honors.**Positions:**

1980-1983 Internship and Residency, Dept. of Medicine, University of Kentucky, Lexington, KY
 1983-1985 Internist, USPHS, Indian Health Service, and North Country Hospitals, Cass Lake, and Bemidji, MN
 1985-1987 Fellow/Chief Resident, Occupational Medicine, University of Iowa, Iowa City, IA
 1985-1987 Epidemic Intelligence Service Officer, USPHS, CDC, IDPH, Dept. of Prev. Med. & Environ. Health in Chronic Disease Epidemiology, University of Iowa
 1987-1992 Associate, Depts. of Prev. Med. & Environ. Health, and Internal Medicine, University of Iowa
 1987-present Toxicology Consultant, IDPH, Agency for Toxic Substances and Disease Registry, University of Iowa Hospitals Drug Information Office, University of Minnesota Hospitals Poison Control Center
 1989-1997 Director, University Occupational Health Services Clinic, University of Iowa
 1992-1994 Staff Physician, Emergency Treatment Center, University of Iowa
 1992-1996 Assistant Professor, Dept. of Prev. Med. & Environ. Health, University of Iowa
 1993-1996 Assistant Professor, Dept. of Internal Medicine, College of Medicine, University of Iowa
 1996-1999 Associate Professor, Dept. Prev. Med. & Environ. Health, College of Medicine, University of Iowa
 1996-present Associate Professor, Dept. of Internal Medicine, College of Medicine, University of Iowa
 1997-present Associate Director, University Employee Health Clinic, University of Iowa Hospitals and Clinics
 1999-present Associate Professor, Dept. of Occup. Environ. Health, College of Public Health, University of Iowa

Professional Affiliations:

Society of Toxicology; American Council of Governmental Industrial Hygienists; American College of Occupational and Environmental Medicine; American Public Health Association; Iowa Foundation for Medical Care (peer reviewer)

B. Selected Peer-Reviewed Publications.

Fuortes L, Weismann DN, Graeff ML, Bale JF Jr, Tannous R, Peters C. Immune thrombocytopenia and elemental mercury poisoning. *Clin Toxicol* 33(5):449-455, 1995.
 Fuortes L, Kiken S, Makowski M. An outbreak of naphthalene di-isocyanate-induced asthma in a plastics factory. *Arch Environ Health* 50(5):337-340, 1995.
 Fuortes LJ, Weih L, Jones ML, Burmeister LF, Thorne PS, Pollen S, Merchant JA. Epidemiologic assessment of laboratory animal allergy among university employees. *Am J Ind Med* 29:67-74, 1996.
 Kross BC, Burmeister LF, Ogilvie LK, Fuortes LJ, Fu CM. Proportionate mortality study of golf course superintendents. *Am J Ind Med* 29:501-506, 1996.
 Fisher E, Fuortes L, Field RW. Occupational exposure of water-plant operators to high concentrations of radon-222 gas. *J Occup Environ Med* 38(8):759-764, 1996.
 Schootman M, Zwerling C, Miller ER, Torner JC, Fuortes L, Lynch CF, Merchant JA, Peterson TD. Method to electronically collect emergency department data. *Ann Emerg Med* 28:213-219, 1996.
 Fuortes L, Weismann D, Niebyl J, Gergely R, Reynolds S. Pregnancy, pica, pottery and Pb. *J Am Coll Toxicol* 15(5):445-449, 1996.
 Fuortes L, Schwartz D. Pesticide toxicology. In: Noble J, editor. *Textbook of Primary Care Medicine*, 2nd Edition. Mosby: 103-110, 1996.

- Reynolds SJ, Fuortes LJ, Garrels RL, Whitten P, Sprince NL. Lead poisoning among construction workers renovating a previously de-lead bridge. *Am J Ind Med* 31:319-323, 1997.
- Fuortes L, Clark MK, Kirchner HL, Smith EM. Association between female infertility and agricultural work history. *Am J Ind Med* 31:445-451, 1997.
- Smith EM, Hammonds-Ehlers M, Clark MK, Kirchner HL, Fuortes L. Occupational exposures and risk of female infertility. *J Occup Environ Med* 39(2):138-147, 1997.
- Fuortes LJ, Weih L, Pomrehn P, Thorne PS, Jones M, Burmeister L, Merchant JA. Prospective epidemiologic evaluation of laboratory animal allergy among university employees. *Am J Ind Med* 32:665-669, 1997.
- Fuortes LJ, Cowl CT, Reynolds SJ. Ethnic and socioeconomic risk factors for lead toxicity. *J Clean Technol, Environ Toxicol, Occup Med* 6(4):339-343, 1997.
- Fisher EL, Fuortes LJ, Ledolter J, Steck DJ, Field RW. Temporal and spatial variation of waterborne point-of-use ²²²Rn in three water distribution systems. *Health Physics* 74(2):242-248, 1998.
- Cowl CT, Jones MP, Lynch CF, Sprince NL, Zwerling C, Fuortes LF. Factors associated with fatalities and injuries from hot-air balloon crashes. *JAMA* 279:1011-1014, 1998.
- Vergara AE, Fuortes L. Surveillance and epidemiology of occupational pesticide poisonings on banana plantations in Costa Rica. *Int J Occup Environ Health* 4:199-201, 1998.
- Fuortes L. Surveillance and epidemiology of pesticide poisonings on banana plantations in Costa Rica. HRSA International Health Affairs, World Health Organization Fellowship for U.S. citizens, A Compendium of Participant Reports, 1990-1995, pp. 63-73, Dec 1998.
- Fuortes L. Urticaria due to airborne permethrin exposure. *Veterinary & Human Toxicol* 41(2):92-93, 1999.
- Reynolds SJ, Seem R, Fuortes LJ, Sprince NL, Johnson J, Walkner L, Clarke W, Whitten P. Prevalence of elevated blood leads and exposure to lead in construction trades in Iowa and Illinois. *Am J Ind Med* 36:307-316, 1999.
- Bauer E, Fuortes L. An assessment of exposure to mercury and mercuric chloride from handling treated herbarium plants. *Veterinary & Human Toxicol* 41(3):154-156, 1999.
- Somorovska M, Jahnova E, Tulinska J, Zamecnikova, Sarmanova J, Terenova A, Vodickova T, Liskova A, Vallova B, Soucek P, Hemminki K, Norppa H, Hirvonen A, Tates AD, Fuortes L, Dusinska M, Vodicka P. Biomonitoring of occupational exposure to styrene in a plastics lamination plant. *Mutation Research* 428:255-269, 1999.
- Schootman M, Fuortes L. Breast and cervical carcinoma: The correlation of activity limitations and rurality with screening, disease incidence, and mortality. *Cancer* 86(6):1087-1094, 1999.
- Schootman M, Fuortes L. Functional status following traumatic brain injuries: Population-based rural-urban differences. *Brain Injury* 13(12):995-1004, 1999.
- Fuortes L, Bauer E. Lead contamination of imported candy wrappers. *Veterinary & Human Toxicol* 42(1):41-42, 2000.
- Schootman M, Harlan M, Fuortes L. Use of the capture-recapture method to estimate severe traumatic brain injury rates. *J Trauma-Injury Infection & Crit Care* 48:70-75, 2000.
- Schootman M, Fuortes L. Ambulatory care for traumatic brain injuries in the US, 1995-1997. *Brain Injury* 14(4):373-381, 2000.
- Fuortes L, Schenck D. Marked elevation of urinary zinc levels and pleural-friction rub in metal fume fever. *Veterinary & Human Toxicol* 42(3):164-165, 2000.
- Tulinska J, Dusinska M, Jahnova E, Liskova A, Kuricova M, Vodicka P, Vodickova L, Sulcova M, Fuortes L. Changes in cellular immunity among workers occupationally exposed to styrene in plastics lamination plant. *Am J Ind Med* 38:576-583, 2000.
- Schootman M, Myers-Geadelmann J, Fuortes L. Factors associated with adequacy of diagnostic workup following abnormal breast cancer screening results. *J Am Board Fam Practice* 13(2):94-100, 2000.
- Fisher EL, Fuortes LJ, Field RW, Valentine RL, Mehrhoff M. Dissolution of ²²⁶Radium from pipe-scale in a public water supply. *Environ Intl* 26:69-73, 2000.
- Johnson JC, Reynolds SJ, Fuortes LJ, Clarke WR. Lead exposure among workers renovating a previously de-lead bridge: Comparison of trades, work tasks. *Am Ind Hyg Assoc J* 61(6):815-819, 2000.
- Schootman M, Fuortes L. Early indicators of the effect of a breast cancer screening program for low-income women. *Cancer Detection and Prevention* 25(2):138-146, 2001.
- Saleh SS, Phillips KT, Schootman M, Fuortes L. Evaluation of Medicaid status, race, and urbanicity as risk factors for asthma hospitalization. *TX J Rural Health* 19(1):49-56, 2001.
- Saleh SS, Fuortes L, Vaughn T, Bauer EP. Epidemiology of occupational injuries and illnesses in a university population: A focus on age and gender differences. *Am J Ind Med* 39(6):581-586, 2001.
- Kurcova M, Jahnova E, Dusinska M, Liskova A, Tulinska J, Vodicka P, Sulcova M, Fuortes L. Immune markers in biologic monitoring of occupationally exposed workers. *Biologia* 56(3):293-296, 2001.
- Reynolds SJ, Black DW, Borin S, Breuer G, Burmeister L, Fuortes L, Smith TF, Stein M, Subramanian P, Thorne P, Whitten P. Indoor environmental quality in six commercial office buildings in the midwest United States. *Appl Occup Environ Hyg* 16(11):1065-1077, 2001.
- Jahnova E, Tulinska J, Weissova S, Dusinska M, Fuortes L. Effects of occupational exposure to styrene on expression of adhesion molecule on leukocytes. *Human and Experimental Toxicology* 21:235-240, 2002.

C. Research Support.

ONGOING

5 D43 TW00621-07 (Cook, PI) 09/30/95-04/30/06
Fogarty International Center / NIH
Iowa International Research & Training in Environmental & Occupational Health
The overall purpose of this project is to build global capacity and collaboration to better understand, investigate, control and prevent environmental and occupational health problems in developing countries and the United States.
Role: Advisor

DE-FC03-00EH00025 Amendment 4 (Fuortes, PI) 08/01/00-07/31/05
US Department of Energy
Combine Phase I & II, Year 4, Burlington Atomic Energy Commission Plant--Former Worker Program
The goal of the project is to identify and locate those individuals who were employed by the AEC and IAAP in order to offer them medical screenings and assist in the process of filing claims under the Energy Employees Occupational Illness Compensation Program.
Role: Principal Investigator

(Fuortes, PI)
US Department of Defense: Epidemiologic Health Survey of Department of
Defense Contract Workers at the Iowa Army Ammunition Plant in Middletown,
IA 8/8/02-3/31/05

COMPLETED

5 P30 ES05605-12 (Thorne, PI) 09/29/90-03/31/04
NIEHS
Environmental Health Science Research Center
To operate an interdisciplinary environmental health sciences research center; to promote research interactions; to enhance and promote training and development of young investigators; to serve as a technical resource, in the area of agricultural and rural environmental exposures and health effects.
Community Outreach & Education Core
Role: Steering Committee
To serve as a technical resource for local, state, national and international legislative bodies, organizations, and populations.

1U50/OH07548-01 (Sanderson, PI) 09/30/01-09/29/03
CDC/NIOSH (continuation of center begun 1990)
Great Plains Center for Agricultural Health
To conduct multidisciplinary research; to develop and evaluate novel disease and injury prevention models and outreach intervention programs in Federal Region VII; to train health professionals; to provide technical assistance and consultation to Federal Region VII; and to maintain and strengthen linkages with agricultural health and safety professions in the state, the region, nationally, and internationally.
Keokuk County Rural Health Study
Role: Co- Investigator
To provide technical assistance and consultation, training opportunities, and conducts numerous projects in the areas of respiratory disease, injury, environmental assessment, mental health, dermatitis, and other health outcomes.

MFK 2130400 (Kline, PI) 02/01/01-01/31/03
Assoc. of Occupational and Environmental Health Clinics (AOEC)
Midwestern Regional Pediatric Environmental Health Center
Role: Co-Investigator

T42/CCT717547-02 (Sprince, PI)

07/01/00-06/30/03

CDC/NIOSH

Occupational Safety and Health Training Grant - Education and Research Center (ERC): Heartland Center for Occupational Safety and Health

The major goal of the Center will be to provide graduate training, continuing education and outreach in occupational safety and health to serve Federal Region VII (IA, KS, MO, NE).

Occupational Medicine Training Program

Role: Program Faculty

R08 CCR720231-01 (Simmons, PI)

09/30/01-09/29/03

CDC

Development of Biomonitoring Plan for the State Iowa

The primary objective of this project is the development of a comprehensive biomonitoring plan for the State of Iowa.

Role: Co-Investigator

(Fuortes, PI)

08/08/02-12/31/03

US Department of Defense

Epidemiological and Medical Monitoring Proposal of Former Department of Defense Workers at the Iowa Army Ammunitions Plant in Middletown, Iowa

The purpose of this study is to assess the conventional weapons workers' potential exposures to hazardous substances and to survey their health outcomes. Ultimately, this study shall direct workers to proper medical treatment.

Role: Principal Investigator