

Curriculum Vitae

Arch I. Carson MD PhD
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Professional Activities/Employment

1992-06 University of Texas School of Public Health, Assistant Professor of Occupational Medicine and Environmental Sciences,

1998-06 University of Texas Health Science Center at Houston, Director, Occupational and Environmental Medicine Residency.

1997-06 Texas Medical Center, Inc., Medical Director, Employee and Family Health Clinic.

2000-06 Chevron Phillips Chemical Company, Corporate Medical Director.

2003-05 U. S. Department of Energy Office of Worker Advocacy Physician Review Panel Appointee.

1997-04 Southwest Center for Occupational and Environmental Health, Principal Investigator, Lead Poisoning Epidemiology Project.

1991-06 Private practice of Occupational Medicine and Toxicology, New York NY and Houston TX.

1992-03 UT Health Services, University of Texas Houston Health Science Center, Attending Physician, Occupational Medicine and Toxicology.

1997-01 University of Houston Downtown, Medical Director, Student Health Service.

1998-99 University of Texas School of Public Health, Convener of the Occupational/Environmental Health and Aerospace Medicine Module.

1992-97 Respiratory Consultants of Houston, PA, Attending Physician, Occupational Medicine and Toxicology.

1992-95 Exxon Chemical Americas, Baytown Polymer Center and Basic Chemicals Technology, Baytown TX, Consultant Physician.

1990-91 New York University Medical Center, Bellevue Hospital, Tisch Hospital, and Manhattan VA Hospital, New York NY, Dept. of Medicine Clinical Instructor.

1982-90 Chemical Information Services Inc., Cincinnati OH, Associate in Toxicology.

1978-87 University of Cincinnati College of Medicine, Cincinnati OH, Instructor and Lecturer, Adjunct Assistant Professor of Industrial Toxicology.

1974-79 University of Cincinnati College of Medicine, Kettering Laboratory, Cincinnati OH, Research Technologist in Occupational Medicine and Clinical Studies.

1978-79 US Navy, Asbestos Surveillance Program, Lecturer.

1969-74 Millstone Inc., Cincinnati OH, Design Engineer, environmental control systems.

Educational Background

1992 Certificate of Training - Residency in Occupational Medicine University of Texas Health Science Center at Houston, School of Public Health, and Southwest Center for Occupational and Environmental Health, Houston TX, 1992.

1991 Certificate of Training - Postgraduate Internship in Internal Medicine, New York University Medical Center and Bellevue Hospital Center, New York NY.

1990 MD - Ohio State University College of Medicine, Columbus OH.

1987 PhD - Kettering Laboratory, University of Cincinnati College of Medicine, Cincinnati OH. Awarded in the field of "Environmental Health – Toxicology."

1973 BS - University of Cincinnati College of Arts and Science Cincinnati OH. Awarded in the field of "Biological Sciences with Concentration in Engineering."

1969 Rensselaer Polytechnic Institute, Troy NY. Management Engineering (no degree conferred).

1968 Villa Madonna College, Covington KY. Certificate in Contemporary Physics.

Fellowships

1983-85 American Lung Association Fellowship in Lung Research (Inhalation Toxicology). American Lung Association of Southwestern Ohio, Research Grant.

1981-82 Owens Corning Fiberglas Fellowship for Graduate Research in Combustion Toxicology.

1979-80 National Institute for Occupational Safety and Health, Centers for Disease Control, Doctoral Fellowship in Industrial Toxicology.

Certifications

2000 Board Eligibility, Medical Toxicology, American Board of Preventive Medicine.

1994 Board Certification, Occupational Medicine, American Board of Preventive Medicine.

1992 License to practice medicine, State of Texas J2524.

1991 License to practice medicine, State of New York 186563.

1982 Emergency Hazard Response, Environmental and Industrial Chemical Accident Management, USEPA certification.

1979 Pulmonary Function Testing for Occupational Surveillance, NIOSH #003.

Professional Community Service

1998-06 Association of Environmental and Occupational Clinics/ATSDR community resource on toxic exposures and health consequences, Federal Region VI.

1997-06 City of Houston Biological, Chemical and Radiation Emergency Preparedness Program. Medical Toxicology On-Call Advisor to the Houston Medical Strike Team.

1994-06 University of Texas Health Science Center, Houston, Community Resource and Speaker via Public Information Office, (Toxic Exposures and Environmental Health).

1996-06 American College of Occupational and Environmental Medicine, Council on Academic Affairs and Co-chair, Academic Section.

2003-05 U. S. Department of Energy Office of Worker Advocacy Physician Review Panel Appointee.

1996-00 American Public Health Association, Occupational Health Subcommittee

1994-96 Advisory Board, National Environmental Education and Training Center (NEETC), Curriculum Development Committee.

1981-85 Tri-State Air Committee Inc., Cincinnati OH, (voluntary air quality organization) Scientific Advisor, Elected to Board of Directors in 1982, President and Chairman of the Board in 1984-85.

1981-85 American Lung Association of Southwestern Ohio, Cincinnati OH, (voluntary health organization) speakers bureau.

1982-83 City of Cincinnati, Appointment to Occupational Health Scientific Liaison Board (municipal advisory committee).

1981-83 Cincinnati Area Toxic Substances Coalition, Cincinnati OH, (coalition of business, voluntary, and labor organizations with interest in environmental toxic substance issues) Cofounder and Chairman.

1982-83 Ohio River Valley Committee on Occupational Safety and Health, Cincinnati OH, (organized labor coalition) Scientific Resource Committee.

1972-82 Walnut Hills-Evanston Medical Center, Cincinnati OH, (primary care center) Board of Directors.

Professional Societies

2006 International Congress on Occupational Health

2003-06 American College of Medical Toxicology

2002-06 Society of Occupational and Environmental Health

2001-06 American Conference of Governmental Industrial Hygienists

1991-06 American College of Occupational and Environmental Medicine.

1994-00 American Public Health Association

1980-85 American Thoracic Society, Associate Member and Participant in Occupational and Environment Scientific Session.

1983-85 American Industrial Hygiene Association, Full member.

1983-85 Society of Toxicology, Student member.

Publications

Kerawala,R and **Carson A** “*Rare Occupational Disease: Acquired Porphyria Cutanea Tarda*” manuscript in preparation.

Carson A, Colombo S, Alavi A, Bahrainwala M, and Burau K “*Impact Analysis of a Municipal Childhood Lead Poisoning Prevention Screening Program,*” manuscript in preparation.

Carson A. and Rountree P, “*The Interpretation of Serum Liver Enzyme Tests in Occupational Medicine,*” manuscript in preparation.

Carson A and Vinegar A, “*Effects of Subchronic Inhalation of Polystyrene Pyrolysis Products on Lung Function in Rats,*” manuscript in preparation.

Carson A, and Vinegar A, “*A Technique for the Simultaneous Performance, Quantification and Sampling of Fresh Smoke Exposures,*” manuscript in preparation.

Pugach s, **Carson A**, Clarkson T, Berens P, Fowler G, Cernichiari E, Fonseca L, Ramin SM ,and Mercado-Calderon F, “*Prenatal Mercury Exposure And Postnatal Outcome: Clinical Case Report And Analysis*”, **J Toxicol Clin Toxicol**, submitted..

Savely SM, **Carson A**, Delclos GL “*A survey of the implementation status of environmental management systems in U.S. colleges and universities*” **J Cleaner Production**, accepted for publication (2006).

Savely SM, **Carson A**, Delclos GL “*An environmental management system implementation model for U.S. colleges and universities*” **J Cleaner Production**, accepted for publication (2006).

Delclos GL, Arif AA; Aday L; **Carson A**; Lai D ; Lusk C; Stock T; Symanski E; Whitehead LW; Benavides FG; Anto JM, “*Validation of an asthma questionnaire for use in healthcare workers*” **Occupational and Environmental Medicine**, 000:1-8 (2006).

Delclos GL, Bright KA, **Carson A**, Felknor SA, Mackey TA, Morandi MT, Schulze LJH, Whitehead LW. “*A global survey of occupational health competencies and curriculum*” **International Journal of Occupational and Environmental Health**; **11**:181-194 (2005).

Mitchell CS. Moline J. Avery AN. Baker D. Blessman JE. **Carson A**. Cosby O. Darcey D. Ducatman A. Emmett EA. Forst L. Gerr F. Gochfeld M. Guidotti TL. Harber P. Hu H. Hegmann KT. Kipen HM. Levin J. McGrail MP. Meyer JD. Mueller KL. Prince S. Rubin R. Schwerha JJ. Sprince NL. Taiwo O. Upfal M. *In response to the 2002, vol. 22, no. 4 article entitled "The rise and fall of occupational medicine in the United States".*[Letter] **Am J Preventive Med.** **23(4)**:307-9, (2002).

Carson A and Delclos GL., “*The Respiratory System,*” in *Modern Industrial Hygiene: Volume II – Biological Aspects*, J.L. Perkins, ed. (2003) American Conference of Governmental Industrial

Hygienists, Cincinnati.

Carson, A, Colombo S, and Alavi A, City of Houston Childhood Lead Poisoning Prevention Program: Case Density and Impact Analysis, March 31, 2000, Technical Report (Principal Investigator).

Townsend MC, Lockey JE, Velez H, **Carson A**, Cowl CT, Delclos GL, Gerstenhaber BJ, Harber PI, Horvath EP, Jolly AT, Jones SH, Knackmuhs GG, Lindesmith LA, Markham TN, Raymond LW, Rosenberg DM, Sherson D, Smith DD, and Wintermeyer SF. ACOEM Position Statement – “*Spirometry in the Occupational Setting*” **JOEM**; **42**: 228-245. (2000).

Bright, K, Delclos G, **Carson A**, Felknor S, Mackey T, Morandi M, Schultz L, and Whitehead L, **A Global Study of Occupational Health Competencies and Curricula**, Report to the World Health Organization, March, 2000, Southwest Center for Occupational and Environmental Health.

Carson A, Guevara E, Delclos GL, Murray KA, Burau KD, Morandi MT, Felknor SA, (“*A Study of General Health of Workers of the Industrial Complex of Barrancabermeja*”) in **[Compendium on Occupational Health in the Petroleum Industry of Colombia: Technical and Scientific Report of the “Occupational Health in the Petroleum Industry” Project]**, 1999 Pan American Health Organization (co-author).

Carson, A, Hangoc V and Bahrainwala M, City of Houston Childhood Lead Poisoning Prevention Program: Case Density and Impact Analysis, June 30, 1999, Technical Report (Principal Investigator).

Carson, A, Spears B, and Burau K, City of Houston Childhood Lead Poisoning Prevention Program: Case Density and Impact Analysis, June 30, 1998, Technical Report (Principal Investigator).

Carson, A, Detry M, Spears B, and Burau K, City of Houston Childhood Lead Poisoning Prevention Program: Case Density and Impact Analysis, June 30, 1997, Technical Report (Principal Investigator).

Delclos, GL and **Carson A**, “*Acute Gaseous Exposures,*” in **Occupational and Environmental Respiratory Diseases**, P. Harber, M. Schenker, and J. Balmes eds. (1995) Mosby Yearbook Pub., St. Louis.

Samuels, SJ, Lemasters GK and **Carson A**, “*Statistical Methods for Describing Occupational Exposure Measurements,*” **Am. Ind. Hyg. Assoc. J.**, 46:427-433 (1985).

Lemasters, GK, **Carson A** and Samuels SJ, “*Occupational Styrene Exposure for Twelve Product Categories in the Reinforced-Plastics Industry,*” **Am. Ind. Hyg. Assoc. J.**, 46:434-441 (1985).

Lockey JE Brooks SM Jarabek AM Khoury PR McKay RT **Carson A** Morrison JA Wiot JF Spitz HB. “*Pulmonary changes after exposure to vermiculite contaminated with fibrous tremolite*” **Am Rev Respir Dis.** **129(6)**:952-8, (1984).

Lockey, JE, Jarabek A, **Carson A**, McKay R, Harber P, Khoury P, Morrison J, Wiot J, Spitz H and Brooks SM, "*Pulmonary Hazards from Vermiculite*," in **Health Issues Related to Metal and Nonmetallic Mining**, W.L. Wagner, W. Rom and P. Merchant eds., 1983, Butterworth's, Boston.

Vinegar A and **Carson A**, "*Pulmonary Function Changes in Chinese Hamsters Exposed Six Months to Diesel Exhaust*," **Environ Int**, 5:369-371 (1981).

Lockey, JE, Jarabek A, **Carson A**, McKay R, Harber P, Khoury P, Morrison J, Prior J and Brooks SM, "*Health Effects of Vermiculite Exposure*," **Am Rev Respir Dis**, 123:133 (1981) abstract.

Lockey, JE, Jarabek A, **Carson A**, McKay R, Harber P, Khoury P, Morrison J and Brooks SM, "*Single-Breath Diffusing Capacity (DLCOsb) in a Working Population*," **Am Rev Respir Dis**, 123:132 (1981) abstract.

Vinegar, A, **Carson A** and Pepelko WE, "*Pulmonary Function Changes in Chinese Hamsters Exposed to Diesel Exhaust*," in **Health Effects of Diesel Engine Emissions**, Vol. 2, W.E. Pepelko, R.M. Danner and N.A. Clarke eds., 1980, US Environmental Protection Agency, Washington.

Carson, A, Vinegar A, Leng J and Cooper G, "*Effects of Chronic Exposure to some Diesel Exhaust Components on Lung Function in Rats*," **Fed Proc**, 39:1091, (1980) abstract.

Elia, VJ, Anderson LA, MacDonald TJ, **Carson A**, Buncher CR and Brooks SM, "*Determination of Urinary Mandelic and Phenylglyoxylic Acids in Styrene Exposed Workers and a Control Population*," **Am Ind Hyg Assoc J**, 41:922-926 (1980).

Brooks, SM, Anderson LA, Emmett E, **Carson A**, Tsay JY, Elia VJ, Buncher CR and Karbowsky R, "*The Effects of Protective Equipment on Styrene Exposure in Workers in the Reinforced Plastics Industry*," **Arch Environ Health**, 35:287-294 (1980).

Brooks, SM, Zipp T, Barber M. and **Carson A**, "*Measurement of Maximal Expiratory Flow Rates in Cigarette Smokers Using Gases of High and Low Densities*," **Am Rev Respir Dis**, 118:75-81 (1978).