

SHAUN ANTHONY CRAWFORD, PH.D., C.I.H.

PRINCIPAL SCIENTIST

BACKGROUND

2024 – Principal Scientist, Environmental Health & Engineering, Inc.
2004 – 2024 Owner, CRAWSA Environment and Health, LLC
2001 – 2004 Health Assessor, ATSDR, Florida Department of Health
1997 – 2001 Owner, CRAWSA Consulting
1992 – 1997 Director of Environmental Sciences, HAZCLEAN, Inc.
1990 – 1992 Environmental Scientist, ATEC & Associates, Inc.

EDUCATION

2011 PhD Industrial Hygiene/Environmental Health, University of Alabama at Birmingham (UAB)
1999 MSPH Industrial Hygiene/Environmental Engineering, UAB
1989 BA Biology/Ecology, Washington & Lee University, 1989

ACADEMIC APPOINTMENTS

Faculty Instructor Department. of Environmental Health Sciences, University of Alabama at Birmingham, Graduate - Industrial Hygiene Program

2016 - 2017 Assessment and Management of Environmental Risk, ENH 612
2016 - 2017 Fundamentals of Occupational Safety, ENH 670
2016 - 2017 Industrial Hygiene Case Studies, ENH 625
2015 - 2017 Interdisciplinary Field Studies, ENH 680 / ENH 681
2013 - 2016 Fundamentals of Industrial Hygiene, ENH 621
2012 - 2016 Control of Occupational Hazards, ENH 624
2012 - 2016 Physical Agents, ENH 626
2012 - 2015 Environmental Sampling and Analysis Laboratory, ENH 661

Faculty Instructor Urban Environmental Studies, Birmingham-Southern College, Birmingham, AL, Undergraduate - UES Program

2012 - 2014 Environmental Earth Sciences, UES 160
Spring 2012 Environmental Problems and Policy, UES/PS 210
Fall 2011 Industrial Ecology and Sustainable Engineering, UES 206

Faculty Instructor Department of Biological Sciences, Samford University, Birmingham, AL, Graduate - Environmental Management Masters Program

Spring 2016 Environmental Health, PHLT 503
2008 - 2012 Environmental Toxicology, ENVM 508
2008 - 2011 Risk Assessment, ENVM 506



PROFESSIONAL EXPERIENCE:

Dr. Crawford leads multidisciplinary teams to solve a broad range of industrial hygiene (IH) and environmental challenges for clients across multiple sectors, with our Advanced Analytics group. He is an expert in exposure assessment, environmental controls, and indoor environmental quality (IEQ) issues. Besides having extensive experience with regulatory compliance, risk assessment, and risk communication, Dr. Crawford has expertise in a broad range of environmental and health disciplines, including:

Assessments of both indoor and outdoor air exposures to gases/vapors (VOC/SVOC/PCBs/Radon) and particulate (PM) contaminants including metal dusts, working for media outlets, municipalities, attorneys, businesses, and single and multi-family residential property owners.

Phase I (assessment), Phase II (sampling) and Phase III (remediation) projects for banks, businesses, and corporate real estate transactions.

Compliance inspections for environmental and safety hazards related to state environmental, USEPA, OSHA, NFPA, NEC and API regulations, for federal agencies, municipalities, businesses, and corporations.

Industrial hygiene assessments for employee exposure to gases, vapors, particulates, and noise, including the use of direct reading instruments and collection on active and passive sampling media for compliance with OSHA and corporate safety programs, including compliance with NIOSH standards.

Experienced in sampling, characterization and segregation of characteristic and listed hazardous wastes including VSQG, SQG and LQG determinations, waste profiling, handling, and storage requirements.

Participation in numerous large-scale remediation projects including both removal of soil and treatment of groundwater through both active and passive technologies.

Trainer for HAZWOPER modules, OSHA 510 Noise and Respiratory Protection, Respirator Fit Testing, EPA-approved Sampling Methodology (Air/Water/Soil) and provider of Toolbox talks for safety, consultants, health departments, volunteers, students, and subcontractors.

Dr. Crawford is skilled in the practice of sustainable methods, practices, and programs, including energy, water resources, waste reduction, consumables reduction, waste to raw material conversion, and recycling programs.

Dr. Crawford serves as a pro-bono technical and scientific advisor to Black Warrior Riverkeeper, Cahaba Riverkeeper, Coosa Riverkeeper, and Citizen Science Community Resources, Inc. He is also a Senior Member and former Deputy Commander of Cadets in the U.S. Air Force Auxiliary Civil Air Patrol.

PROFESSIONAL CERTIFICATIONS AND TRAINING

American Board of Industrial Hygiene Certified Industrial Hygienist (9552CP)
OSHA Hazardous Materials Handling and Sampling Program (40 hour)
OSHA HAZWOPER Supervisors Course (8 hour)
OSHA General Industry Safety and Health (10-hour) #700353476
Integrated Systems Safety - Fall Protection Certificate 12-320-10
Industrial Ventilation - Special Gases
AHERA Asbestos Inspector Training Course
Lead Paint Hazards and Inspection Course

PUBLICATIONS

Crawford S, Lungu, C, 2013, Application and limitations of a mass transfer VOC emission model for a dry building material. Atmospheric Environment; 81: 25-31.

Crawford S, Lungu C, 2011, Influence of temperature on styrene emission from a vinyl ester resin thermoset composite material. Science of the Total Environment; 409: 3403-3408.

Balanay J, **Crawford S**, Lungu C, 2011; Comparison of toluene adsorption among granular activated carbon and different types of activated carbon fibers (ACFs). Journal of Occupational and Environmental Hygiene; 8(10): 573-579

Shapiro N, James J, Barry L, **Crawford S**, Pusatier, J. Henderson, A. Logsdon, T. Hogenkamp, J. Gentile, T. 2022, Refining Relationships: How an Unlikely Community–Scientist Partnership Led to a Historic Environmental Justice Victory. Environmental Justice. 16. 10.1089/env.2022.0018.

PUBLISHED GOVERNMENT DOCUMENTS

Public Health Assessments United Metals. ATSDR, October 2005 Royal Oaks Community.
ATSDR January 2004

Health Consultations Coronet Industries. ATSDR, June 2004, North Suwannee Community
ASTDR, May 2004 United Metals. ATSDR September 2002 Royal
Oaks Community. ATSDR, May 2002 Leesburg Thermometer Site.
ATSDR, January 2002