

## CURRICULUM VITAE

**SHAUN ANTHONY CRAWFORD, PhD, CIH**  
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### EDUCATIONAL QUALIFICATIONS

<u>Institution</u>	<u>Degree</u>	<u>Area(s) of Concentration</u>
Washington & Lee University, Lexington VA	BA	Biology / Ecology
University of Alabama at Birmingham	MSPH	Industrial Hygiene (IH) / Environmental Engineering
University of Alabama at Birmingham	PhD	Environmental Health / IH

### APPOINTMENTS - CONSULTANCY

2004 – 2020	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.

### APPOINTMENTS - ACADEMIC

<b>Faculty Instructor</b>	<u>Dept. of Environmental Health Sciences, University of Alabama at Birmingham, Graduate - Industrial Hygiene Program</u>
2016 - 2017	<b>Assessment and Management of Environmental Risk</b> , ENH 612
2016 - 2017	<b>Fundamentals of Occupational Safety</b> , ENH 670
2016 - 2017	<b>Industrial Hygiene Case Studies</b> , ENH 625
2015 - 2017	<b>Interdisciplinary Field Studies</b> , ENH 680 / ENH 681
2013 - 2016	<b>Fundamentals of Industrial Hygiene</b> , ENH 621
2012 - 2016	<b>Control of Occupational Hazards</b> , ENH 624
2012 - 2016	<b>Physical Agents</b> , ENH 626
2012 - 2015	<b>Environmental Sampling and Analysis Laboratory</b> , ENH 661
<b>Faculty Instructor</b>	<u>Urban Environmental Studies, Birmingham-Southern College, Birmingham, AL, Undergraduate - UES Program</u>
2012 - 2014	<b>Environmental Earth Sciences</b> , UES 160
Spring 2012	<b>Environmental Problems and Policy</b> , UES/PS 210
Fall 2011	<b>Industrial Ecology and Sustainable Engineering</b> , UES 206

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### **APPOINTMENTS – ACADEMIC (continued)**

**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

### **PRODUCTS - BIBLIOGRAPHY**

#### **Manuscripts**

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

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

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

#### **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. ATSDR, May 2004  
United Metals. ATSDR, September 2002  
Royal Oaks Community. ATSDR, May 2002  
Leesburg Thermometer Site. ATSDR, January 2002

### **CERTIFICATIONS, TRAINING and SKILLS (selected)**

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

ATSDR Health Assessor / Media Spokesperson

Conversational Spanish Speaker

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### **PROJECT SPECIFIC EXPERIENCE (selected)**

#### Air – Indoor / Outdoor

Numerous assessments of both indoor and outdoor air exposures to gas (VOC/SVOC/PCBs/Radon) and particulate (PM) contaminants, including work for media outlets, municipalities, attorneys, businesses and single and multi-family residential property owners, such as the City of Birmingham.

#### Asbestos / Mold / Bacteria / PFCs / Lead

Numerous assessments for the presence of asbestos-containing materials, fungus, bacteria, polyfluorinated compounds and lead, including sampling air, water and soil on behalf of attorneys, businesses and single and multi-family residential properties.

#### Environmental Due Diligence

Numerous Phase I (assessment), Phase II (sampling) and Phase III (remediation) projects for banks, businesses and corporate real estate transactions, such as financial institutions, and the Alabama Housing Finance Authority.

#### Environmental and Safety Compliance Inspections

Compliance inspections for environmental and safety hazards related to state environmental, USEPA, OSHA, NFPA and API regulations, for federal agencies, governments, businesses and corporations nation-wide.

#### Environmental Management Systems

Participation in the development and support for numerous businesses and corporations in managing compliance for environmental and safety programs including scheduling and tracking of required compliance actions and dates related to storage and handling of hazardous wastes, and OSHA program updates.

#### Groundwater

Conducted oversight and management of the installation of numerous groundwater monitoring wells, development, sampling and gradient contour sampling, primarily for assessment of remediation planning and implementation, including the ADEM UST Trust Fund program.

#### Industrial Hygiene

Numerous 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.

#### Noise Measurement and Control

Numerous assessments of noise exposures for both environmental (municipal code) and occupational (OSHA) compliance, including Octave Band analysis and noise contour mapping to assist in compliance with hearing conservation programs and the selection and installation of abatement materials and/or controls, and other regulatory compliance.

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**PROJECT SPECIFIC EXPERIENCE (Continued)**

RCRA Compliance

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

Remediation

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

Storage Tanks (UST/AST)

Numerous compliance inspections for prevention of uncontrolled releases of products stored in USTs and ASTs, including review of inspection records, leak detection equipment, anti-corrosion equipment and spill prevention and control equipment and inspection procedures.

Stormwater

Numerous stormwater projects including development and preparation of Stormwater Pollution Prevention Plans (SWPPP) and Best Management Practices Plans (BMPP) for commercial businesses such as Coca-Cola, as well as sediment and erosion control monitoring and compliance activities.

Training

Training experience including HAZWOPER, Respirator Fit Testing, EPA-approved Sampling Methodology (Air/Water/Soil) and Tool Box talks for safety, for consultants, health departments, volunteers, students and subcontractors.

Waste / Wastewater

Experience with waste characterization and quantification, including waste segregation and wastewater compliance monitoring for sanitary sewer system disposal, for Coca-Cola, the Birmingham News, and WWTPs.

Wetland Determination and Delineation

US Army Corps of Engineers trained and certified wetland delineator, including determination and boundary delineation for properties between one to 100 acres in size, for numerous government and corporate entities.

**ADDITIONAL EXPERIENCE**

Sustainability

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.

Non-Profit Support

Serve as technical and scientific advisor to Black Warrior Riverkeeper, Cahaba Riverkeeper, Coosa Riverkeeper, GASP, and Citizen Science Community Resources, Inc.