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## Experienced In

- Epidemiology
- Toxicology
- Environmental
- Human Health Risk Assessments
- Chemical Exposures
- Foodborne & Infectious Disease Outbreaks
- Petrochemical Exposures
- Air Quality Issues

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## Education

PhD, Toxicology/Epidemiology, University of Texas School of Public Health

MS, Forensic Toxicology, University of Florida

MPH, Occupational Health and Aerospace Medicine, University of Texas School of Public Health

BA, Biology and Art History, Trinity University

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## Military Experience

Lt. Commander

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## Project Geographical Experience

U.S., Africa, Europe, Asia

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## Language

English, French

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## Summary of Experience

Dr. Allison Stock has over 25 years of epidemiological, toxicological, and environmental experience. She has worked nationally and internationally with local and federal governments as well as private industry. Her expertise includes human health risk assessments and the impacts following environmental, occupational, and pharmaceutical exposures. Additionally, Dr. Stock has extensive epidemiological experience and has conducted large human health studies following exposures to environmental agents such as lead, petrochemicals, and formaldehyde, and infectious agents such as SARS, Salmonella, and Legionella. She has served on both federal and industry working groups.

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## Speaking Engagements

“COVID-19: The Science and What We Know (Now), and Issues We Are Dealing With.” JS Held Expert Series

“It’s Not Always a Gut Feeling.” PLRB Podcast

“Municipal Water Issues.” Claims and Litigation Management

“What is Really in your Swimming Pool.” World Waterpark Association

“What Your Expert Needs to Do.” American Bar Association

“IARC Updates to Benzene.” Harris Martin Conference

“Marijuana and Driving.” Arizona Claims Association

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## Expert/Testifying Experience

Dr. Stock has served as a corporate representative and an expert witness for litigation support. Expert witness on matters involving environmental, occupational, infectious disease, worker compensation, drug, and alcohol exposures and the regulatory issues associated with such exposures.

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## Professional Affiliations/ Memberships/ Licenses/Training

Society of Toxicology – Full Member

Association of Women in Science – Member

International Society for Environmental Epidemiology – Member

American College of Toxicology – Full Member

American College of Epidemiology – Full Member

American Public Health Association – Member

Council of State and Territorial Epidemiologists – Member

Society of Practitioners of Health Impact Assessment – Member

National Environmental Health Association – Member

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## Role at J.S. Held

Dr. Stock is the Health Sciences Service Line Leader within Environmental, Safety, and Health.

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## Contact

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## Select Work Experience

### Principal Consultant

**Rimkus Consulting Group.** Responsible for providing senior technical support for the Toxicology and Food Safety Division of Rimkus. Duties include the evaluation of human health impacts from drugs including alcohol, illicit, and prescription drugs, chemical exposures in the environment or workplace, and chemicals in consumer products, as well as providing litigation and regulatory toxicological support.

### Senior Epidemiologist

**Chevron USA.** Responsible for creating and implementing health, environment, and safety plans and procedures for upstream business units and major capital projects. Managed environmental, social, and public health impact assessment process for all of Chevron Upstream, along with conducting impact assessments for Chevron Upstream. Also managed property transfer process for Chevron Upstream and provided guidance on due diligence, data room storage, health, environment, and safety reports, and identification of liabilities for several new country entries and sale/purchase of existing assets. Additionally, Dr. Stock was involved in both license to construct and license to operate permitting processes for both Upstream and Mining operations. Responsible for monitoring 150,000 current and former Texaco and Chevron employees for long term health exposures. Additionally, corporate representative and expert witness for toxic tort litigation cases.

### Senior Scientist

**U.S. Centers for Disease and Prevention (Lt. Commander).** Responsible for leading the Air Pollution Team and providing epidemiological, toxicological, and technical expertise in planning scientific studies. Duties included designing and implementing epidemiological studies addressing emerging issues in air pollution and respiratory health such as biomass exposures, legionella outbreaks, formaldehyde (Katrina trailers), PM2.5 exposures, asbestos exposures (Libby Montana), carbon monoxide poisoning, asthma and chronic obstructive pulmonary disease, infectious diseases, and mold exposures. Additional duties included responding to large scale disasters such as hurricanes, wildland forest fires, and train car derailments. Also created a unique surveillance system for carbon monoxide poisoning in the U.S. Provided support to the states through the National Asthma Control Program. Routinely created interagency and congressional briefings, along with interacting with the general public and the press. Served on several federal taskforces related to air pollution issues.

### Epidemic Intelligence Service (EIS) Officer

**Epidemic Intelligence Service, CDC (Lieutenant).** Conducted field investigations in response to emerging public health issues such as varicella, SARS, 9/11 Response, anthrax outbreak, monkey pox, cruise ship outbreaks of Norwalk virus, lead exposures in children, legionella, communicable diseases, and mold exposures. The investigations entailed the evaluation and interpretation of surveillance data regarding various disease-detection systems. The field investigations were conducted to provide epidemiological support to state health departments that request assistance.

### Laboratory Technician

Brooks Airforce Base, University of Texas Health Science Center Houston, Baylor College of Medicine

### Fellowships:

**National Institute for Occupational Safety and Health.** Tracked fatalities among children living and working in agricultural communities and provided fatality prevention recommendations to the Consumer Product Safety Commission.

**U.S. Centers for Disease Control and Prevention.** Designed and implemented experiments to understand the metabolism of phthalates and polychlorinated phenols. Responsible for testing and creating methods for analyzing chemical terrorism agents. Provided Chemical Terrorism Representation for the Commonwealth of Virginia.

## **Selected Project Experience**

### **Environmental Exposure Projects**

- Evaluate the science around PFOA and other forever chemicals exposure and health outcomes.
- Soil testing and contamination mapping of alfalfa and hay fields following herbicide over-spray.
- Analysis of the impact to flora and fauna at a large recreational area following exposures to recycled wastewater and evaluation of the permitting process.
- Evaluation of the regulatory aspects of oil and gas well drilling including potential for exposure to chemicals.
- Evaluated potential mold and other indoor exposures and the claimed health effects for clients such as a large military housing unit, newly constructed multi-family and single-family housing, and existing housing. Additionally, provided litigation support to the clients.
- Provided guidance to Upstream and Gas business units on Property Transfer including due diligence, data room storage, HES reports, and identification of liabilities. Assisted in two new country entries (one South American and one African) and several domestic large asset transfers.
- Former member of CONCAWE Low Sulphur Diesel working group. Provided observer status to CONCAWE for World Health Organization (WHO) and IARC hearings on low sulfur diesel emissions and health effects. Provided epidemiological and toxicological support for written responses to WHO and IARC.
- Former member of an API science committee.
- Former member of a PM2.5 Federal Taskforce.
- Created impact assessment reports along with impact mitigation/management plans for major capital projects across the U.S., South America, Africa, and Asia which included oil and gas operations, mining operations, solar farms, and wind farms.
- Responsible for filing environmental permits for several offshore projects in Africa, Southeast Asia, and the U.S. including the license to build, license to install, and the license to operate.
- Critically reviewed the literature and vendor-provided information on hydrofracturing fluids. Created company white paper on testing guidelines for ground water and other environmental media.
- Created and implemented a study to track health effects and long-term exposures to formaldehyde in children on the U.S. Gulf Coast following Hurricane Katrina.
- Tracked large scale poisonings to carbon monoxide following large natural disasters. Created an information program for carbon monoxide poisoning prevention and established a novel surveillance system for carbon monoxide.
- Conducted large scale study of mold impacted housing and potential health effects for several Tribal communities across the U.S.
- Worked with several Western U.S. state health departments to devise monitoring plan for health effects following large scale wildland forest fires.
- Conducted research for the National Report on Human Exposure to Environmental Chemicals. Responsible for phthalate and polychlorinated bisphenols laboratory analyses.

### **Occupational Exposure Projects**

- Evaluated occupational exposures to mineral spirits, xylene, toluene, gasoline, benzene, and other petrochemical products.
- Reviewed the epidemiological and toxicological literature to evaluate whether there is an association between noise exposure and hearing loss. Used findings to write a noise exposure standard for a global Fortune 500 company.
- Tracked 150,000 current and former employees of a Fortune 500 company for long term health effects following petrochemical exposures.
- Evaluated occupational exposures to asbestos for both a Fortune 500 company and clients.

- Created and implemented a field study to develop a biomarker for wood smoke exposure at two sites over a three-year period. Monitored wildland forest firefighters for personal exposures to wood smoke and a urinary biomarker for wood smoke exposure.
- Evaluated mechanism and latency issues regarding exposure to benzene and hematopoietic diseases and served on a working group for the American Petroleum Institute (API). API was reviewing the ability to re-start the Shanghai benzene study.
- Created a health Basis of Design (BOD) to be used as a template across all major capital projects for a Fortune 500 company.
- Served as the corporate representative in a variety of toxic tort cases involving occupational exposures to benzene including the review of toxicological, epidemiological, and occupational studies, depositions, expert reports, and exposure data, and identifying alternative causes for a variety of claimed health effects. Provided depositions and testimony as the company representative.

### **Drug and Alcohol Projects**

- Expert witness on drug and alcohol insurance and worker's compensation cases.
- Conducted Dram shop reconstructions for clients.
- Expert witness on medical malpractice cases involving drug/drug interactions, overdose, and underdose scenarios.

### **Consumer Products and Pharmaceuticals Projects**

- Investigated the potential contamination of a dietary supplement which may have occurred during shipping.
- Investigated 10 fatalities associated with consumption of incorrect dosage of a manufactured drug.
- Investigated 3 fatalities consumption of contaminated vitamins.
- Wrote company and reviewed third party safety data sheets (SDS) to provide guidance for consumer's safety and exposure mitigations.
- Performed base chemical analyses for globally harmonized system (GHS) of classification and labeling of chemicals under REACH.
- Worked with U.S. Consumer Product Safety Commission (CPSC) to change labeling on gasoline powered generators to reflect updated language on warning labels. Provided data and communications guidance for new labeling.
- Prepared an epidemiological and toxicological assessment of several personal hygiene products.

### **Infectious Disease, Water, and Food Safety Projects**

- Created COVID-19 reopening plans for Global Corporations, Domestic Corporations, Municipal Spaces, Food Service Establishments, Universities, and K-12 schools.
- Conducted investigations regarding COVID-19 at dining establishments, manufacturing facilities, healthcare facilities, office complexes, and educational institutions.
- Conducted multiple large foodborne and waterborne outbreak investigations for recreation, health care, and hospitality clients.
- Tested food products including beverages, commercially packaged food, and commercially prepared food for the presence of unknown substances.
- Conducted facility and site inspections along with writing hazard analysis critical control point plans (HACCP) and Hazard Analysis and Risk-Based Preventive Controls (HARPC) for large food manufacturing facilities.
- Conducted investigations for mass food spoilage and shorten shelf-life issues for large food manufacturers
- Co-wrote the food safety standard for a large Fortune 500 company. Responsible for implementing the standard in two large office park locations and large corporate meetings with more than a thousand attendees.
- Co-wrote potable and non-potable water standards for a large Fortune 500 company.
- Led several large-scale foodborne outbreak investigations while at CDC.

### **Selected Publications**

Dunn, K. H., Shulmann, S. **Stock, A. L.**, and Naeher, L. P. (2013). Personal Carbon Monoxide Exposures Among Firefighters at Prescribed Forest Burns in the Southeastern United States. *Archives of Environmental & Occupational Health*. **68**(1):55-59.

- Satin, K., and **Stock, A.** (2010). Conducting Effective Health Impact Assessments in the Oil and Gas Industry. Society of Petroleum Engineers. doi:10.2118/127008-MS.
- Holian, A., **Stock, A.**, Migliaccio, C., Noonan, C. and Ward, T. Conference summary: International Biomass Smoke Health Effects (IBSHE) (2007). *Inhalation Toxicology*. 22(2): 91-93.
- Hampson M. N. B. and **Stock, A.L.** (2006). Storm-related carbon monoxide poisoning: lessons learned from recent epidemics. *Undersea & Hyperbaric Medicine*. 33(4):257-63.
- Carbon Monoxide Poisoning After Hurricane Katrina --- Alabama, Louisiana, and Mississippi, August--September 2005. *MMWR*, 2005, 54(39): 996-998.
- Unintentional Non--Fire-Related Carbon Monoxide Exposures --- United States, 2001— 2003. *MMWR*, 2005, 54(02): 36-39.
- Mannino D.M., Holguin F., Greves H.M., Savage-Brown A., Stock A.L., and Jones, R.L. (2004). Urinary cadmium levels predict lower lung function in current and former smokers: data from the Third National Health and Nutrition Examination Survey. *Thorax*. 59(3):194-8.
- Holtz T.H, Ackelsberg J, Kool JL, Rosselli R, Marfin A, Matte T, et al. (2003) Isolated case of bioterrorism-related inhalational anthrax, New York City, 2001. *Emerging Infectious Disease*. 9(6)698-96.
- Heller MB, Bunning ML, France MEB, Niemeyer DM, Peruski L, Naimi T, et al. (2002). Laboratory response to anthrax bioterrorism, New York City, 2001. *Emerging Infectious Disease*. 8(10): 1097-1102.
- Carbon monoxide poisoning resulting from exposure to ski-boat exhaust-Georgia, June 2002. *MMWR*, 2002, 51(37): 829-830.

## **Webcast**

Carbon Monoxide Poisoning Prevention Clinical Education (Web On-Demand)-WD2150

[https://www.cdc.gov/co/clinicaled\\_webcast.htm](https://www.cdc.gov/co/clinicaled_webcast.htm)