## J. Mark Stapleton, PhD, P.E., BCEE

Dr. Stapleton has 27 years of combined practical engineering and intense environmental engineering research experience. He currently serves as Technical Director for Bhate Environmental Associates and is responsible for engineering projects world-wide. He received his Bachelor of Science degree in Chemical Engineering from University of Maryland, College Park, a Master of Science in Civil and Environmental Engineering and a Doctor of Philosophy degree in Environmental Engineering, Biochemistry and Microbiology from Michigan Technological University. He is a licensed Professional Engineer in 18 states, primarily in the south-east portion of the United States, certified environmental auditor, an LPST Manager in the State of Texas and is a Board-Certified Environmental Engineer by the American Academy of Environmental Engineering and Scientists as a Hazardous Waste and Site Remediation Specialist.

Dr. Stapleton has authored and co-authored research papers concerning bioremediation of soils and groundwater and was the first author to publish a paper on bioavailability in the Journal of Great Lakes Research. His most recent effort can be obtained in McNally, DL, JM Stapleton, and JR Mihelcic, "Bioremediation of Contaminated Soil and Groundwater Environments," in Encyclopedia of Life Support Systems, EOLSS Publishers Co. Ltd., Oxford UK, 2003. He was an invited presenter at the 10th ConSoil Conference, *Development of a Risk Assessment Decision Support System for the Risk Assessment of Suspected Contaminated Sites at U.S. Air Force Installations in Europe* Italy, in Milan, June 3-6, 2008, June 2009 *EUCOM Conference,* Sonthofen Germany, *Risk Assessment Decision Support System,* and United States Air Force and Florida Department of Environmental Protection, Doolittle Institute, *PFAS - (Perfluoroalkyl and Polyfluoroalkyl Substances),* Fort Walton Beach, FL, October 2017.

Dr. Stapleton conceived and proposed a new innovative technology for remediating explosive contaminated soils and groundwater titled, "Two-Phase Partitioning Bioreactor (TPPB): A new technology platform for destroying explosives and/or organic contaminated soil and groundwater" which is published on "DENIX", the Defense Environmental Network and Information Exchange. His area of specialty is in environmental microbiology, especially as it relates to in-situ bioremediation. He has supervised and consulted on the implementation remedial technologies such as pump and treat, remedial systems optimization, soil vapor extraction, air sparging, in-situ chemical oxidation, permeable reactive barriers, ZVI, PFAS, PHOSters, surfactant enhanced bioremediation, phytoremediation and developed 3-D fate and transport groundwater computer models for both organic and heavy metal contamination at more than 200 sites. Technical Director/Senior Engineer on the following current Performance Based Remedial Contracts: Florida Panhandle, BRAC East, Alabama- Tennessee and Longhorn Army Ammunition Plant and Engineer of Record on the Facilities Reduction Program, Huntsville Center.

Dr. Stapleton was elected to the prestigious Sigma Xi, Scientific Research Society and is currently a member the American Chemical Society, Society of American Military Engineers and the American Institute of Chemical Engineers. Responsible for Mentoring and Career Development of Junior Engineers and Geologists company wide.

### Contact Information

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