

Dr. Michael D. Lee is Vice-President of Research and Development at Terra Systems, Inc. (TSI) of Claymont, DE, USA, a consulting and service firm specializing in the development and application of technologies for the bioremediation of surface and subsurface contaminants. He has a Doctor of Philosophy (1986) and Master of Science (1983) degrees in Environmental Science and Engineering from Rice University and a Bachelor of Science degree in Biology from University of Louisiana at Monroe (1980). Dr. Lee has over 35 years of experience in the field of bioremediation with expertise in applying in situ anaerobic bioremediation of chlorinated solvents and metals, implementing in situ aerobic bioremediation of hydrocarbons and other contaminants in groundwater and waste impoundments, conducting biodegradation and chemical oxidation treatability studies, and assessing natural attenuation of organic contaminants. He has been HAZWOPER certified since 1988. Dr. Lee was a technical lead for the first successful demonstration of bioaugmentation to promote the complete anaerobic biodegradation of trichloroethene and cis-1,2-dichloroethene for the Remediation Technologies Development Forum at Dover Air Force Base. Terra Systems was a participant in the Source Area BioREmediation (SABRE) project in the United Kingdom that demonstrated in the laboratory and field, the anaerobic bioremediation of dense non-aqueous phase trichloroethene. He has conducted laboratory microcosm, column studies, and field demonstrations of the anaerobic bioremediation of chlorinated solvents and chemical oxidation at over hundred sites. He jointly holds the patent on the use of emulsified soybean oil to support complete reductive dechlorination of chlorinated solvents. He develops new emulsified vegetable oil (EVO), EVO and zero valent iron, and other bioremediation products for TSI. Dr. Lee has published over 100 articles in peer-reviewed journals, conference proceedings, or books.

