

Vernon R. Schaefer Biosketch

Professor Vern Schaefer, Ph.D., P.E. is the James M. Hoover Professor of Geotechnical Engineering in the Civil, Construction and Environmental Engineering Department at Iowa State University. He teaches a variety of courses in the civil engineering curriculum, primarily geotechnical engineering courses. He has a B.S. in civil engineering from South Dakota State University, a M.S. in geotechnical engineering from Iowa State University, and a Ph.D. in civil engineering from Virginia Tech. Prof. Schaefer has over 140 publications and numerous research reports from 53 funded research projects between 1987 and 2019, with research expenditures over \$9.5 million. Research sponsors include the U.S. National Science Foundation, numerous state departments of transportation, FHWA, SHRP 2, U.S. Geological Survey, and U.S. Bureau of Reclamation. His research interests include landslides and slope stability, foundations, earth retention systems, and ground improvement/modification.

As the Principal Investigator and Project Manager for the SHRP 2 R02 project *Geotechnical Solutions for Soil Improvement, Rapid Embankment Construction, and Stabilization of the Pavement Working Platform*, Prof. Schaefer led a team of 12 researchers and over 40 graduate students in the development of a system for geotechnical solutions for transportation infrastructure between 2007 and the present time. *GeoTechTools* has been online for over six years and is a widely regarded web-based information and guidance system for more than 50 ground improvement and geoconstruction technologies. Additional recent efforts include leading the update of the FHWA/NHI *Ground Modification Manual* released in late 2016 and partaking in the National Cooperative Highway Research Program (NCHRP) study on *Geotechnical Asset Management for Transportation Agencies*, just released in early 2019.

Prof. Schaefer has been very active in committee work in ground improvement in the Geo-Institute as a long-time member of the Soil Improvement Committee (chair for six years), in the Deep Foundations Institute's Ground Improvement Committee, and as an executive member of TC 211 Ground Improvement, the ISSMGE committee.

