Rammed Aggregate Pier Design and Construction

Rammed aggregate pier systems are a ground improvement technology with numerous applications. Depending on site requirements, RAP systems can be installed using replacement (Geopier GP3®) or displacement (Geopier Impact™) methods. RAP systems are used to reinforce good to poor soils, including soft to stiff clay and silt; loose to dense sand; organic silt and peat; variable, uncontrolled fill; and soils below the ground water table. They can be used as an alternative to deep foundations or over-excavation, and provide cost and time savings on sites where poor soils and/or existing undocumented fill are a concern in terms of bearing capacity and settlement. This presentation reviews fundamental Geopier design and construction techniques. Case studies will be presented to illustrate the concepts.

About the Speaker

Mat Klucina, PE serves as the Mid-Atlantic Sales Engineer for GeoStructures, Inc. He is responsible for sales and business development throughout Virginia, Maryland and the District of Columbia. Mat has over 15 years of experience in the engineering and construction industries throughout the Mid-Atlantic region. He has a diverse background in engineering, construction and business development, including extensive experience providing value engineering services to owners, architects and engineers. Mat has a B.S. in Civil Engineering from West Virginia University and is a registered Professional Engineer in the State of Maryland.