



TECHNICAL PRESENTATION
May 10, 2023



Geotechnical Instrumentation

Presented by Dr. James Namekar, P.E. with Geotech Engineering and Testing

BIO: Dr. James Namekar, P.E. is a Chief Engineer in geotechnical engineering at DAE & Associates, Ltd, dba Geotech Engineering and Testing (GET) with the responsibility for the daily operations of geotechnical and environmental engineering, data analyses and the preparation of report recommendations. He has 23 years of

experience in the fields of geotechnical, environmental, materials and geoforensic engineering. His experience is in public infrastructure, including water, wastewater, roads, bridges, freeways, retaining walls, embankments, commercial and high-rise buildings, rail, parks, underground utilities, airports, ports, flood control channel, and subdivisions. His other experience includes planning and supervising geotechnical explorations, subsurface investigations, coordinate laboratory testing and analyze results, date review, report preparation and post-design services. His other experience includes research and development in the field of deep foundations, slope-stability, retaining walls, unsaturated soil mechanics. Mr. Namekar's geotechnical experience has been in landslide investigations, static and seismic slope stability analysis for embankments, cut slopes, ground improvements, jet grouting, shallow and deep foundation design and special inspection, horizontal directional drilling, settlement, lateral earth pressure, rigid pavement design. He has a lot of experience with design of foundations on expansive soils. He has also been involved in conducting many environmental site assessment studies, including Phase I and II environmental site assessment studies.

ABSTRACT: Mr. James Namekar, Ph.D., P.E., will be discussing "Geotechnical Instrumentation and Monitoring". On many earthwork, foundation, excavation or failure assessment projects, instrumentation is an essential component of monitoring geotechnical performance. Instrumentation can range from simple such as settlement monitoring to more complex for projects such as tunnels, slopes or excavations next to sensitive structures. Instrumentation may also be needed for vibratory and impact loads during and post construction. Instrument data from the initial phase of a project may reveal the need to modify the design in later phases. Safety Instruments can provide early warning of impending failures, allowing time for safe evacuation of the area and time to implement remedial action. Legal Protection Instrument Data can provide evidence for a legal defense of designers and contractors should owners of adjacent properties claim that construction has caused damage. Various geotechnical monitoring instruments along with their applications will be discussed during this presentation.

PREVIOUS FPA PRESENTATIONS BY MR. NAMEKAR:

[August 2022](#) - Horizontal Directional Drilling and Its Applications

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