

DYNAMIC COMPACTION: A PROVEN GROUND IMPROVEMENT FOR LANDFILL SITES

WEDNESDAY, SEPTEMBER 6 | 11 AM – NOON | ZOOM

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SUMMARY

Over the past 40 years, ground improvement has become increasingly important to the geotechnical community as the number of sites with suitable bearing soils become more rare. Increasingly more available sites have received various landfill materials, be it municipal solid waste (MSW) from households, construction and demolition (C&D) debris, or soil materials exported from another site. Hence, the challenges to engineers and contractors to design and construct new development within budget and on time increase each year.

This presentation discusses the use of dynamic compaction as a method to improve in-place landfill materials to where surface construction can proceed without excessive long-term settlements. Chris will explore the design approach and means and methods used while conducting dynamic compaction programs at various landfill sites and the means for evaluating the programs' effectiveness. Chris will outline data from successfully completed projects as well as some of the more notable case histories for construction on landfill sites. He will draw conclusions as to the current state-of-the-practice in the design and implementation of dynamic compaction programs on sites with varying landfill composition.

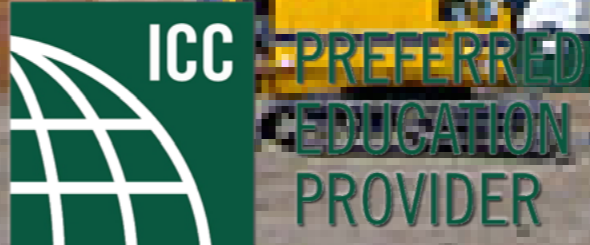


Chris Woods, PE | Densification, Inc.

Chris Woods is Vice President of the dynamic compaction specialty contractor, Densification, Inc. Prior to joining Densification, Chris spent over thirteen years as a geotechnical consultant, practicing throughout the eastern seaboard and overseas. Chris earned his Bachelor's of Science in Civil Engineering from Purdue University and his Master's in Geotechnical Engineering from Virginia Tech. He has over 20 years of experience in geotechnical engineering, with a specialization in ground improvement. He has also been involved with the design of shallow and deep foundation systems, evaluation of earth slope stability, design of retaining walls, geotechnical instrumentation monitoring, and extensive construction oversight. Chris is an active member of ASCE and its Geo-Institute, serving as a member of the Geo-Strata Editorial Board since 2015, and also serving on the Soil Improvement Committee and the ASCE Foundation Standards Committee. He was the Co-Technical Chair of the 2022 Deep Foundations Institute (DFI) Conference.

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