



August 2018

The Anchor

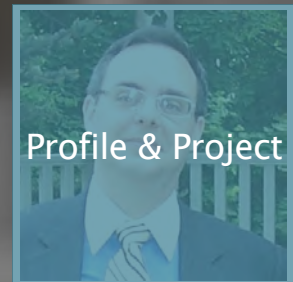
The Earth Anchoring Suppliers Newsletter



Event Review



Product View



Profile & Project



Holding Court in DELMARVA: The Deep Foundation Demonstration Event for Engineers

CHANCE® Civil Construction, Avon Corp. and Earth Anchoring Suppliers hosted structural, civil and geotechnical engineers from Maryland, Delaware, southern New Jersey, eastern PA and Metro DC for a hands-on deep foundation demonstration and seminar.

Located on the shores of the Chesapeake Bay in Deale, Maryland area engineers were engaged, enlightened and a bit indulged as well.

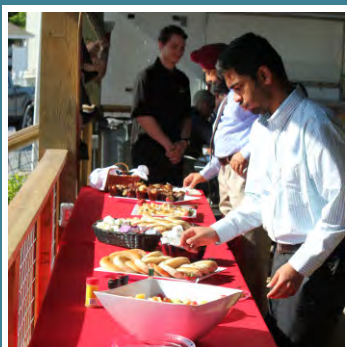
The early morning session under the cabana was energized. With about fifty engineers in attendance, the day started with a comprehensive presentation from Phil Brackett of Hubbell Power Systems (CHANCE Helical Piles) and Alex Raposo of Earth Anchoring Suppliers. The focus was deep foundations and helical piles: applications, design, installation and the latest innovations.

A highlight of the morning session was engineer Matt Conte's detailed review of his invention, the DRIVECAST™ high capacity screw displacement pile (manufactured by CHANCE). DRIVECAST's high capacity and low impact installation piqued the interest of the engineers.

Along with our presenters, veteran deep foundation contractors Avon Corp. of Alexandria, VA provided crews and equipment for a series of live demonstrations.

- DRIVECAST installation and live load test
- ROCK-IT™ carbide tipped helical pile for challenging, high blow count soils
- Square shaft helical pile installation with highly mobile installation rig
- The full range of helical pile terminations and their applications

DRIVECAST was the main interest for attendees. The live load test of the installed DRIVECAST pile tested to 200 kips at a depth of 30 feet, 10,500 ft/lbs of torque with 0.058" of permanent deflection after rebound. These results were embraced by all.



Attendees "refueling" between sessions



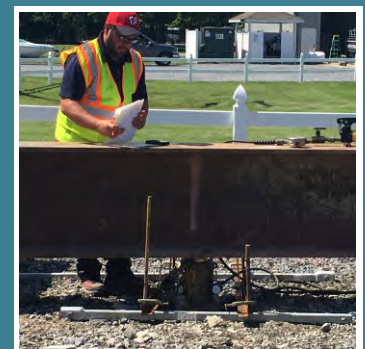
Engineers reviewing various terminations



Matt Conte explaining DRIVECAST technology



Alex from EAS conducting Q&A session

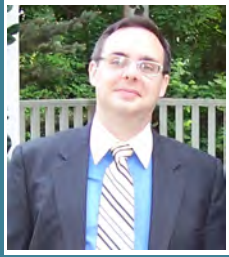


DRIVECAST load test being set up

"There were a lot of design-specific questions I answered... they seemed eager to starting designing with DRIVECAST"

Matt Conte

Mark Reme, P.E., P.P.



What was your introduction to deep foundation engineering?

"I got started with engineering in high school. I was in an apprentice program, working for the local utility company. There I was exposed to civil engineering... I decided I was going to pursue engineering in college. I went to New Jersey Institute of Technology and graduated with a bachelors degree while working a smaller engineering firm in Belmar, NJ, doing drafting and drainage work."

"I went on to get my masters from NJIT in geo-environmental engineering with a concentration in geo-technical. After 10 years, I moved to a company that specialized in utility work across the US. There I worked primarily in structural, doing deep foundation work for transmission towers. I then moved to smaller firm as department head for structural engineering. There we did all types of commercial buildings, wireless communications towers... a lot of deep foundation work."

"I then went out on my own, forming Reme and Associates and have been there ever since... working on all types of deep foundations. I find it very interesting especially when helical piles are involved. It's very satisfying creating new and unexpected solutions for my clients."

PROFILE & PROJECT

Tell us about a new project that excites you.

[New Construction Piles: Five Story Building, Hoboken, NJ]

"This was an interesting case. We are dealing with extremely poor soils, very wet, saturated clays... essentially no blow counts... 20-25 feet of these kinds of soils."

"Earth Anchoring wanted to use Helical Pulldown Mircopiles. We put together the calculation package and drawings, the builder's engineer wasn't completely comfortable with the analysis... there was a concern about buckling in these soils."

"This project required much more analysis and delving deeper. We worked together with the CHANCE® engineers, did additional research into the geo-technical parameters... we came up with a model (utilizing a different software)... it showed our initial assumptions were accurate."

"The engineer wanted to have a load test done... the owner wanted to know if there was a way to avoid that extra time and expense. This design and the analysis gave the engineer the confidence to proceed with our methodology (the Helical Pulldown Mircopile)."

"I hear a lot of opinions... there can be a lack of understanding as to the strength and capacity of helical piles... I often help educate different people in the varied uses and applications of helical piles."

We recently spoke with Phil Brackett (Northeast Regional Manager for CHANCE® Civil Construction) to answer the question:

What do engineers ask about helical piles?

What is the capacity limit for your piles?

"Capacities are soil dependent... you can expect to achieve up to 200 tons"

What size machine do you need to use to install your piles?

"It's a range... our piles can be installed with as little as three feet of head room using a portable drive-head... depending on the capacity needed, anything from a mini-excavator to a 30,000 lb. excavator is used."

When should you use square shaft vs. round shaft piles?

"Square shaft helical piles provide the lowest cost per kip, however it's sometime advantageous to transition to a round shaft pile to add lateral stability when weak soils are encountered in the upper-most layer."

Do you have any installers in my area?

"Yes... we have a vast network of trained and certified CHANCE installers up and down the east coast and nationwide."

What notable projects have you done in my area?

"We have thousands of completed projects all over the greater Northeast... mostly likely there's a project-of-note in your area."



PRODUCT VIEW

DRIVECAST™ High Capacity Screw Displacement Pile

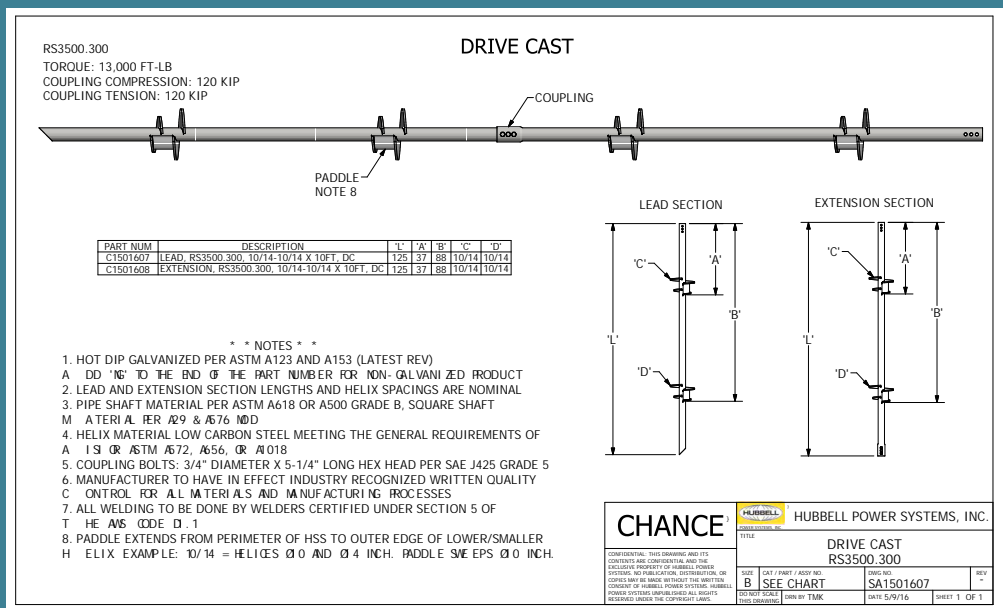


The CHANCE® Drivecast screw displacement pile utilizes soil displacement methodology which allows the pile to be advanced into the soil by rotation. Pile sections are comprised of a centralized steel shaft and a patented displacement assembly placed at regular intervals from the pile tip. By design, the pile establishes a cylindrical void which allows a column of grout to be immediately pulled down from a gravity-fed reservoir, creating a fully grouted, high capacity pile

What sets DRIVECAST apart:

- Efficient and predictable high capacity
- Lower mobilization costs
- Higher production than traditional auger cast (CFA) piles
- Can be installed with smaller (non-specialized) equipment
- Minimal site disturbance
- Excellent for limited access/low overhead areas
- No vibrations or spoils

To find out more or schedule a DRIVECAST seminar, contact us 732-747-7222



Engineers in New England
"Let's Get Deep"

The New England
DEEP FOUNDATION
DEMONSTRATION DAY
OCTOBER, 11 - MAYNARD, MA.

For Reservations:
call: 732-747-7222

or

email: jill@earthanchoring.com

[Space is limited, reservation required]

The latest Deep Foundation Technology and Techniques

Exclusively for Engineers – at the event you will see:

- Technical sessions and live installation from our experts
- DRIVECAST installed and load tested
- Rock-it carbide-tipped helical pile

Complimentary lunch plus PDH credits available