GEOTECHNICAL ENGINEERING STUDENT ORGANIZATION AT UIUC

MIXED IN-PLACE AND CUTTER SOIL MIXING TECHNIQUES AND ITS APPLICATIONS

Karsten Beckhaus, Ph.D.
Bauer Foundations
9 / 27/ 2016
12:30 pm – 1:30 pm 2310 Newmark Civil Engineering Building

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DEEP PLASTIC CONCRETE CUT-OFF WALLS

Karsten Beckhaus, Ph.D.
Bauer Foundations
9 / 27/ 2016
8:00 am – 9:20 am 1311 Newmark Civil Engineering Building

Dr. Beckhaus completed his undergraduate degree in Civil Engineering in 1994 from the Technical University in Munich (TUM). He worked as a research assistant at the center for building materials at TUM from 1994 to 2003 where he also completed his PhD (Dr.-Ing.) in ground improvement in 2003 under Professor Bauer. Since 2003, Dr. Beckhaus has worked with Bauer Spezialtiefbau GmbH in Germany, a worldwide foundation and ground improvement contractor. He is the Director of the Technical Services Department for Bauer, which employs 25 people that specialize in geotechnical, measuring and surveying, and building materials engineering and testing, that support Bauer's operative units by consulting on projects and improving their technical procedures by systematic close-to-the-job observations and research.

Dr. Beckhaus will discuss the use of mix-in place and cutter soil mixing techniques for constructing excavation walls and seepage barriers. His presentation will include several case histories, which illustrate these new construction techniques and important aspects of the design and execution of mix-in place and soil mixing techniques.

Dr. Beckhaus will discuss the use of deep plastic concrete for dam and levee seepage cut-off walls. His presentation will include several case histories, e.g., Peribonka Dam in Quebec, Canada, Herbert Hoover Dike in Florida, and Center Hill Dam in Tennessee, and important aspects of the design and execution of deep plastic concrete cut-off walls.