

BGA Evening Meeting

Wednesday 21st November at 18:00

GODFREY MITCHELL THEATRE, INSTITUTION OF CIVIL ENGINEERS,
ONE GREAT GEORGE STREET, WESTMINSTER, LONDON SW1P 3AA

Grouting and Strengthening of Low Permeability Soil Using Biocalcis

**Annette Esnault Filet
Soletanche Bachy**

Summary:



Bio calcification is a very recent in situ soil consolidation solution. It is obtained by calcite precipitation under controlled biogeochemical conditions. Soletanche Bachy holds several patents for implementing the process by grouting and has developed the Biocalcis process.

Programme

17:30 Tea/coffee - Brasserie
18:00 Lecture followed by Q & A
19:15 Drinks reception – ICE Café Bar

Registration

Book online:

t: +44 (0)20 7665 2007
e: bga@britishgeotech.org.uk

Drinks reception sponsor



It is based on the injection of ureolytic bacteria with a calcifying solution, which leads to the creation of a biological cement that binds the soil grains together without decreasing the initial permeability. The process has been proven by several experiments, initially on laboratory scale, then in situ on an industrial scale.

Further information overleaf/

Grouting and Strengthening of Low Permeability Soil Using Biocalcis (cont'd)

The presentation will summarize the latest developments on the technology and its fields of applications specifically in the fields of liquefaction mitigation, erosion control and soil reinforcement. It will also present some design and modelling aspects together with environmental issues and in-situ controls.

The feasibility of implementation in various soil gradings and configurations, and under several hydraulic conditions, will be discussed.

Biography

Annette holds a Masters Degree in Chemical Engineering, she is Senior Project Manager in the Soletanche Bachy Research and Development Group. She has been involved with a number of ground remediation projects where Soletanche Bachy has developed and implemented systems to remove and encapsulate pollutants (waste – polluted soil and water treatments).

She is responsible for the development and implementation of biological treatments. She has led the development of Biocalcis from the laboratory to the first project in the South of France to stabilize a reinforced earth wall abutment within a live highway environment. She manages the BOREAL project (Research project for the application of biocalcification on dykes under continuous flows).



Please join us in the ICE Café Bar afterwards for drinks sponsored by