

Table of contents

Preface	IX
<i>Introductory lecture</i>	
Screw piling: Still a challenging discussion topic? <i>Van Impe, W.F.</i>	3
<i>Theme lecture 1: Mexican experiences with bored piles</i>	
Enduring subsoil changes with large bored piles in Mexico City <i>Springall, G.</i>	11
<i>Theme lecture 2: Auger and bored pile monitoring and testing</i>	
Auger and bored pile construction monitoring and testing <i>Bustamante, M.</i>	27
<i>Theme lecture 3: Research needs and professional practice in bored and auger piles</i>	
Deep foundations - Can further research assist practice? <i>Poulos, H.G.</i>	45
<i>Theme lecture 4: Design practice of bored piles in group and in piled raft concepts</i>	
Design of piled raft foundations: Practice and development <i>Mandolini, A.</i>	59
<i>Theme lecture 5: Soil parameters relevant to bored pile design from laboratory and in situ tests</i>	
Soil parameters relevant to bored pile design from laboratory and in situ tests <i>Jamiolkowski, M.</i>	83
<i>Theme lecture 6: Experiences with bored piles under seismic loading</i>	
Performance and practice on bored piles subjected to earthquake <i>Matsui, T., Oda, K., Tokida, K. & Yasuda, F.</i>	103

Discussion session 1:

Installation parameter influence; international standards and Eurocode 7 for bored and screw piles

Assessment of model factors and reliability index for ULS design of pile foundations <i>Bauduin, C.</i>	119
Comparative performances of Continuous Flight Auger and Driven Cast in Place piles in sands <i>Evers, G., Hass, G., Frossard, A., Bustamante, M., Borel, S. & Skinner, H.</i>	137
Influence of residual stresses for non displacement cast in situ piles <i>Falconio, G. & Mandolini, A.</i>	145
Analysis of bearing capacity and settlement of CFA piles <i>Kłosiński, B. & Rychlewski, P.</i>	153
The bearing capacity of piles <i>Mets, M.</i>	157
Contact behaviour at the interface between bored piles and subsoil <i>Moormann, Ch.</i>	163
Development of the screw steel pipe pile with toe wing, “Tsubasa Pile” <i>Mori, G.</i>	171
Installation effort as an indicator of displacement screw pile capacity <i>NeSmith, W.M.</i>	177

Discussion session 2:

Screw and bored piles under axial, lateral and earthquake loading; design versus performance

Investigation of the large lateral displacements behaviour of tubular piles in sand - Full scale and centrifuge modelling <i>Bouafia, A. & Lachenani, A.</i>	185
Calculation of load-settlement curve based on CPT test results <i>Gwizdala, K. & Steczniewski, M.</i>	191
Compacted grout bored micropiles in clay <i>Lutnegger, A.J.</i>	197
Design of axially loaded bored single piles <i>Masopust, J.</i>	203
Investigation of lateral load resistance of laterally loaded pile in sandy soil <i>Rahman, M., Alim, A. & Chowdhury, A.S.</i>	209
Particle based modeling of CFA and soil displacement piles <i>Schmitt, A. & Katzenbach, R.</i>	217

Discussion session 3:

Professional practice and quality control in bored and auger piling; design philosophy

Bored precast piles equipped with grouted bulb in the toe region <i>Karkee, M.B. & Yamato, S.</i>	227
Bored sockets in weathered basalt <i>Maertens, L.</i>	235
Structural design issues for bored piles <i>O’Neill, M.W., Tabsh, S.W., Sarhan, H.A. & Nam, M.S.</i>	243

Recent developments on Continuous Flight Auger (CFA) pile: Technology, equipment and applications <i>Pagliacci, F., Bertero, A., Siepi, M. & Zuffi, P.</i>	251
A study of the screwed pile - The results of installation and loading tests and analysis of penetration mechanisms <i>Saeki, E. & Ohki, H.</i>	259
Behaviour of polymer-based slurry for deep-seated bored piles in multi-layered soil of Bangkok <i>Thasnanipan, N., Aye, Z.Z. & Boonyarak, T.</i>	267
Bearing capacity of bored pile packed with iron and steel slag using precast concrete pile <i>Yabuuchi, S., Nishiwaki, A., Kobayashi, K., Hirao, K. & Yoshikawa, N.</i>	275
 <i>Discussion session 4:</i>	
<i>Bored and auger pile testing</i>	
Influence of pile installation and of pile test procedure on the test load results of Atlas pile - A case study <i>Ayfan, E.F., Van Impe, W.F. & Imbo, R.</i>	287
Experimental evidence for the validation of load-settlement predictions <i>Caputo, V.</i>	295
Behaviour of a CFA pile in a lateric clay <i>Décourt, L.</i>	301
Bi-directional static load testing - State of the art <i>England, M.</i>	309
Static and cyclic tests on bored piles for the foundation of a tunnel and slab tracks <i>Kempfert, H.-G., Raithe, M. & Quick, H.</i>	315
A full-scale test on large diameter bored piles for the construction of the HST-tunnel in Antwerp (Belgium) <i>Maertens, J., Theys, F. & Maekelberg, W.</i>	323
A contribution to the analysis of Osterberg's cell load test <i>Russo, G., Recinto, B., Viggiani, C. & de Sanctis, L.</i>	331
Case history of a designed, installed, load and integrity tested ACIP piles project <i>Stephan, G.A. & Saxena, D.S.</i>	339
 <i>Discussion session 5:</i>	
<i>Case studies including also piled raft design</i>	
Box-shaped foundations of bored and auger piles (or diaphragm walls) <i>Brandl, H.</i>	349
Centrifuge modelling to investigate the performance of piled rafts <i>Conte, G., Mandolini, A. & Randolph, M.F.</i>	359
Evaluation of deep bored foundation behavior on a tropical residual soil via instrumented loading tests <i>Cunha, R.P., Pereira, J.H.F. & Camapum de Carvalho, J.</i>	367
A case study of rock socketed piles: Design, control and construction of bored piles for a bridge foundation in southeast Brazil <i>de Mello, L.G., Bilfinger, W., Mendes, A.S. & Sá Fontes, R.</i>	373
On the ultimate vertical load of piled rafts on soft clay soils <i>de Sanctis, L. & Mandolini, A.</i>	379
Piled raft foundation of a railway bridge in tertiary clay <i>El-Mossallamy, Y., Schmidt, H., Gündling, E. & Löschner, J.</i>	387

Comparative behavior of ACIP and driven piles in Gulf coastal clays <i>Kim, M-G., O'Neill, M.W., Roberts, T. & Yin, S.</i>	395
Effect of groundwater-drawdown on deep foundations <i>Moormann, Ch. & Katzenbach, R.</i>	401
Small-scale model tests with Combined Pile-Raft Foundations <i>Turek, J. & Katzenbach, R.</i>	409
 <i>Indices</i>	
Keyword index	417
Author index	419