

## Publications by Dr Z. Cabarkapa

**CABARKAPA, Z., CUCCOVILLO, T. AND GUNN, M. (1998).** A new triaxial apparatus for testing unsaturated soil. Invited paper for presentation at 2nd International Conference on Unsaturated Soils, UNSAT'98, Beijing

**CABARKAPA, Z., CUCCOVILLO, T. AND GUNN, M. (1999).** Some aspect of the pre-failure behaviour of unsaturated soil. Invited paper for poster session for Second International Symposium on Pre-failure Deformation Characteristics of Geomaterials, IS Torino '99

**CABARKAPA, Z. (2000).** A multifunctional apparatus for unsaturated soil testing, Sixth Young Geotechnical Engineers Symposium, City University, London

**CABARKAPA, Z., CUCCOVILLO, T. AND GUNN, M. (2001).** Discussion: "A unique relationship for  $c$  for the determination of the shear strength of unsaturated soils" by N. Khalili and M.H. Khabbaz, *Geotechnique* Vol. 48, No.5.

**CABARKAPA, Z and WHITE, M. (2002).** Air-drying processes in unsaturated soils, International workshop on Environmental Geomechanics, Monte Verita, Switzerland.

**CABARKAPA, Z., GUNN, M. and CUCCOVILLO, T. (2003).** Response of soil with compressible pore fluid, 2<sup>nd</sup> Asian Conference on Unsaturated Soils, Osaka, Japan

**CABARKAPA, Z., CUCCOVILLO, T., GUNN, M. and CRILLY, S.M. (2003).** Discussion: "Suction in compacted states" by Vatsala, A. and Srinivasa Murthy, B.R. *Geotechnique* 52, No.4

**CABARKAPA, Z. MILLIGAN, G.W.E., MENKITI, C.O., MURPHY, J. AND POTTS, D.M. (2003)** Design and performance of a large diameter shaft in Dublin Boulder Clay, BGA International Conference on Foundations, Dundee

**NUSEIBEH, G.M. HIGGINS, K.G. CABARKAPA, Z. and ZDRAVKOVIC, L. (2005)** A numerical study of the behaviour of 19<sup>th</sup> century brick-lined tunnels in London', 11<sup>th</sup> International Conference of IACMAG, Torino, Italy, pp. 695-702

**CABARKAPA, Z. and CUCCOVILLO, T. (2006).** Automated triaxial apparatus for testing unsaturated soils, *ASTM Geotechnical Testing Journal*

**BOGHOSIAN, H. CABARKAPA, Z. FERREIRA, B. PEDLEY, M. and ST JOHN, H.D. (2006)** Construction of a deep basement on a sloping site in Glasgow: The Aurora Project, 10<sup>th</sup> International Conference on Pilling and Deep Foundations, Article 1348

**CABARKAPA, Z. (2006)** Discussion in *Geotechnique* 'Shear strength of cohesionless soils at low stress'. *Geotechnique*, Vol 56, Issue 6, pp 439-441



**PEDLEY, M. FERNIE, R. ST JOHN, H.D. and CABARKAPA, Z. (2007)** Design and construction of high capacity large diameter bearing piles in the soils of the London basin for top down construction, Proc. of the 14<sup>th</sup> European Conference on Soil Mechanics and Geotechnical Engineering, Madrid, pp. 381-386

**CABARKAPA, Z. (2007)** Discussion in ASCE 'Drained Residual Shear strength of some claystones from Front Range, Colorado' J. Geotech and Geoenviron. Engrg. Volume 133, Issue 9, pp 1172-1173

**CABARKAPA, Z. (2007)** A Non-Linear Failure Envelope for Unsaturated Soils, Proc. of the 3<sup>rd</sup> Asian Conference on Unsaturated Soils, China. pp. 185-190

**FRANZIUS, J.N., SCHROEDER, F.C., GRAMMATIKOPOULOU, A., CABARKAPA, Z., HIGGINS, K.G. & POTTS, D.M. (2007).** Comparison of different approaches to model compensation grouting. Proc. 11th Int. Conf. on Numerical Models in Geomechanics - NUMOG X, Rhodes (eds G.N. Pande & S. Pietruszczak), Taylor & Francis Group, pp 359-364

**CABARKAPA, Z., (2007).** Compensation grouting - recent advances. Proc. 14th European Conf. on Soil Mechanics and Geotechnical Engineering, Madrid

**VALSTAD, T. CABARKAPA, Z. and TINTO, W. (2008)** Rock slide in spillway cut Projecto Trasvase Olmos in Peru. Inter. Geological Congress, Oslo, Norway

**CABARKAPA, Z., (2009).** Influence of suction on the bearing capacity, Submitted to the 4<sup>th</sup> Asia-Pacific Conference on Unsaturated Soils

**ZHANG,X., MAVROULIDOU,M., GUNN, M.J. and CABARKAPA, Z. (2009)** Experiences gained using various axis translation technique apparatus to determine soil water retention curve, Submitted to the 4<sup>th</sup> Asia-Pacific Conference on Unsaturated Soils

**ZHANG X., CABARKAPA, Z., MAVROULIDOU, M. AND GUNN, M.J. (2009)** ) A study of the laboratory measurement of the Soil Water Retention Curve, 11<sup>th</sup> International Conference on the Environmental Science and Technology (CEST 2009), Chania, Greece

**ZHANG, X. MAVROULIDOU, M. GUNN, M.J., CABARKAPA, Z., AND SUTTON, J. (2010)** Developing a novel non-contact laser displacement transducer technique for volume change measurements of unsaturated soils, 5<sup>th</sup> International Conference on Unsaturated Soil, Barcelona

**ZHANG, X. MAVROULIDOU, M. GUNN, M.J. AND CABARKAPA, Z. (2010)** A study of the water retention characteristics and volume change of lime treated London Clay, 5<sup>th</sup> International Conference on Unsaturated Soil, Barcelona

**SPASOJEVIC, A. AND CABARKAPA, Z. (2010)** Extended stress field method for soils with nonlinear failure envelope, Submitted to Geotechnique



**SPASOJEVIC, A. AND CABARKAPA, Z. (2010)** Extended stress field analysis for axisymmetric punch indentation, Submitted to Canadian Geotechnical Journal

### **Invited lectures**

**CABARKAPA, Z. (1999).** Unsaturated soils - from theory to practice, Kings College, University of Aberdeen

**CABARKAPA, Z. (2000).** An experimental and numerical study of the behaviour of unsaturated soil, Soil Mechanics Colloquium, Imperial College, London.

**CABARKAPA, Z. (2007).** Infrastructure projects – British Infrastructure Development Specialists Event, British Embassy Belgrade

**CABARKAPA, Z (2008).** Numerical modelling – recent advances, University of Podgorica, Montenegro

**CABARKAPA, Z. (2009).** Geotechnical Risk – Bank of America/Merrill Lynch, Bank of America HQ, London

**CABARKAPA, Z. (2010).** Olmos Collapse – **University of Bari, Italy**

**CABARKAPA, Z. (2010).** What engineers should know about investment, and investors about engineering, Real Estate Exhibition and Conference, **Belgrade**

### **Theses**

**CABARKAPA, Z. (2001)** Mechanical behaviour and modelling of unsaturated soil. PhD Thesis, South Bank University, London

**CABARKAPA, Z (1996)** Coefficient  $N_\gamma$  in the theory of bearing capacity of shallow foundations on sand, MSc dissertation, University of Belgrade

