



## Some Publications by Dr C. O. Menkiti

- 1) Menkiti, C. O. (1987)** "Slope Stabilisation using Ground Anchors", MSc thesis, Imperial College of Science Technology and Medicine, University of London
- 2) Menkiti C. O. (1994)** "Behaviour of clay and clayey-sand, with particular reference to principal stress rotation", PhD thesis, Imperial College of Science Technology and Medicine, University of London.
- 3) Harris D. I., Menkiti C. O., Pooley, A. J. and Stephenson, J. A. (1996)** "Construction of low-level tunnels below Waterloo Station for the Jubilee Line Extension", Geotechnical Aspects of Underground Construction in Soft Ground (Eds. R. J. Mair & R. N. Taylor), Balkema, Ppp 361-366
- 4) Jardine J. R. and Menkiti C. O. (1999)** "The undrained anisotropy of Ko consolidated sediments", Proceedings of the ECSMGE, Amsterdam, Vol 2 pp 1101-1108, Balkema, Rotherdam.
- 5) Menkiti C. O., Sanders P., Barr J., Mair, R. J., Cilingir, M. and James, S. (2001)** "Effects of the 12th November 1999 Duzce Earthquake on Stretch 2 of the Gumusova-Gerede Motorway, Turkey", Proceedings of the Fourteenth International Road Federation (IRF) Road World Congress, 11th – 15th June, 2001, Paris.
- 6) O' Rourke T. D., Goh, S. H., Menkiti, C. O. and Mair, R. J. (2001)** "Highway tunnel performance during the 1999 Duzce earthquake", Proceedings of the Fifteenth International Conference on Soil Mechanics and Geotechnical Engineering, Istanbul, 27 - 31 August 2001
- 7) Turanlia L., Menkiti C. O., Uslu B. H and Isik, S (2001)** "Specialized creep and shrinkage tests for concrete and shotcrete lining of motorway tunnel in heavily squeezing ground", Proceedings of the Conference on Creep, Shrinkage & Durability Mechanics of Concrete and Other Quasi-Brittle Materials, 20-22 August 2001, Massachusetts, USA
- 8) Menkiti, C. O, Miles, R. and Mair, R. J. (2001)** "Tunnelling in Complex Ground Conditions in Bolu Turkey", Proceedings of the Underground Construction 2001 Symposium, London, 18th - 20th September 2001
- 9) Long M., Menkiti, C. O., Kovacevic N., Milligan G. W. E., Coulet D. and Potts D. M. (2003)** "An observational approach to the design of steep sided excavations in Dublin glacial till", Proceedings of the Underground Construction 2003 Symposium, London, 24-25th September 2003.

**10) 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”, Proceedings of the BGA International Conference on Foundations, Dundee, Scotland on 2 - 5th Sept 2003, (Ed T. A. Nelson), pp 175-186.

**11) Menkiti, C. O. and Mc Nally, C. (2004)** “Shotcrete – DPT Award Winning Concrete Solution”, Concrete Today, Magazine of the Irish Concrete Federation, June 2004.

**12) Long M., Menkiti C. O and Follet B. (2004)** “Some Experience in Measuring Pore Water Suction in Dublin Glacial Till”, Geotechnical News, Vol. 22, No. 3, September 2004.

**13) Menkiti, C. O., Long, M., Kovacevic, N, Edmonds, H. E. Milligan, G. W. E. and Potts, D. M. (2004)** “Trial excavation for cut and cover tunnel construction in glacial till – a case study from Dublin”, Proceedings of a three day conference on advances in geotechnical engineering organised by the ICE and held at Royal Geological Society, London, UK on 29 - 31 March 2004 (Skempton Memorial Conference) Vol 2, pp 1090-1104 (Ed. Jardine, R. J., Potts, D. M & Higgins, K. G.)

**14) Skipper J, Follett B, Menkiti C. O, Long M & Clark-Hughes J (2005)** “The Engineering Geology and Characterisation of ‘Dublin Boulder Clay’”, Quarterly Journal of Engineering Geology & Hydrogeology 38, 171 – 187.

**15) Milligan G. W. E, Menkiti C. O, Long M, Kovacevic N, Paterson S. R, Coulet D. and Potts D. M. P. (2006)** “Design and performance of fully and partly nailed slopes in Dublin boulder clay”, submitted for publication in Geotechnique, March 2006.

**16) Long M and Menkiti C. O. (2006)** “Characterisation and engineering properties of Dublin boulder clay”, submitted to the Proceedings of the 2<sup>nd</sup> International Conference on Characterisation and Engineering Properties of Natural Soils, Singapore 29 November 2006

**17) Pigorini A, Iannotta F, Harris D. I, Menkiti C. O, Facibeni L, Mair R. J. M, Jamiolkowski M and Leoni F. (2006)** “The Successful Application of Compensation Grouting to Protect a Railway Viaduct from Tunnelling Induced Movements”, *submitted for publication in Ingegneria Ferroviaria (in Italian).*

**18) Long M and Menkiti C. O. (2007)** “Geotechnical Properties of Dublin boulder clay”, *Geotechnique, 57, No. 7, 595-611.*

**19) Kovacevic N, Milligan G.W.E, Menkiti C.O, Long M and Potts D.M (2007)** “Finite element analyses of steep man-made cuts in Dublin Boulder Clay”, *accepted for publication by the Canadian Geotechnical Journal, November 2007*

**20) Bracegirdle A, Clark A and Menkiti C. O (2007).** “Climate change impacts on landslide mechanisms and hazard in Southern UK”, Proceedings of the International Conference on Landslides and Climate Change – Challenges and Solutions, Isles of Wright, 21 – 24<sup>th</sup> May 2007.

**21) Iannotta F, Pigorini A, Mair R.J, Facibeni L, Harris D. I., Menkiti C. O and Leoni F (2007)** “Applicazione della tecnica del compensation grouting per il controllo dei

cedimenti indotti dallo scavo di gallerie al di sotto di un viadotto ferroviario”, XXIII Convegno Nazionale di Geotecnica, Padova, Abano Terme 2007. (*Application of the technique of compensation grouting for the control of sediments induced by excavation of tunnels beneath a railway viaduct, in Italian*)

**22) Menkiti C. O. and Long M. (2008)** “Performance of soil nails in Dublin glacial till”, Canadian Geotechnical Journal Volume 45, No 12, pp 1685-98

**23) Kontoe S, Zdravkovic L, Potts D. M. and Menkiti C. O. (2008)** “Case study on seismic tunnel response”, Canadian Geotechnical Journal Volume 45, No 12, pp 1743-64 - **awarded British Geotechnical Association Medal 2009**

**24) Pigorini A, Iannotta F, Mair R. J, Harris D. I, Menkiti C. O and Leoni F (2009)** “The Application of Compensation Grouting to Protect a Railway Viaduct from Tunnelling Induced Movements”, Proceedings of the International Tunnelling and Underground Space Association (ITA-AITES) World Tunnel Congress, Budapest, Hungary - 23-28 May, 2009

**25) Kontoe S, Zdravkovic L, Potts D.M and Menkiti C.O (2009)** “Comparison of constitutive models through a case study on seismic response of tunnels”, Proceedings of International Conference on Performance-Based Design in Earthquake Geotechnical Engineering - from case history to practice, Tokyo, Japan, June 15 - 18, 2009 (IS-Tokyo 2009) Paper No. 132, pp.1051-1059 - **Winner BGA Medal 2009**

**26) Mair, R. J., Viggiani, G. and Menkiti C. O. (2009)** “Reduction and Control of Surface Settlement Induced by Shallow and deep Excavations”, Risk Mitigation by Soil Improvement and Reinforcement, XXII Conferenze di Geotecnica di Torino, 18 e 19 Novembre 2009.

**27) Merritt, A.S., Menkiti, C.O., Harris, D.I., Zdravkovic, L., Potts, D.M. and Mair R.J. (2010)**, “3D finite element analysis of a diaphragm wall excavation with sacrificial crosswalls”, International Geotechnical Conference on Geotechnical Challenges in Megacities, Moscow, Russia, 7-10 June 2010

**28) Kontoe, S., Zdravkovic, L., Potts, D. M. and Menkiti, C. O. (2011)**, “On the relative merits of simple and advanced constitutive models in dynamic analysis of tunnels”, accepted by *Geotechnique* in Oct 2011

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**30) Menkiti, C.O., Merritt, A.S., Choy, C.K., Mortimore, R.N. and Black, M (2011)** “Geotechnical Properties of the Chalk in east London and the Thames Gateway”, Geotechnics of Hard Soils – Weak Rocks, 15<sup>th</sup> European Conference on Soil Mechanics and Geotechnical Engineering, Athens, Greece, 12-15 September 2011.

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and re-printed in International Journal of Geotechnical and Geological Engineering, Special issue on Hard Soils and Weak Rocks, Springer, submitted May 2013.

**32) Kontoe, S., Zdravkovic, L., Menkiti, C.O. and Potts, D.M. (2012)** “Seismic response and interaction of complex soil retaining systems”, Computers and Geotechnics, Volume 39, January 2012, DOI information: 10.1016/j.compgeo.2011.08.003

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**34) Long, M., Menkiti, C. O., Skipper, J. A., Brangan, C. and Looby, M. (2012)** “Retaining Wall Behaviour in Dublin’s Estuarine Deposits” Geotechnical Engineering, Proceedings of the Institution of Civil Engineers, Volume 165, Issue 4, 01 August 2012 , pages 247 –266 <http://dx.doi.org/10.1680/geng.10.00037>

**35) Long, M., Brangan, C., Menkiti, C. O., Looby, M. and Casey P. (2012)**, “Retaining walls in Dublin boulder clay”, Geotechnical Engineering, Proceedings of the Institution of Civil Engineers, Volume 165, Issue 6, 01 December 2012 , pages 351 –365 <http://dx.doi.org/10.1680/geng.9.00091> - **Winner ICE John Mitchell Award 2014**

**36) Menkiti C. O, Long M., Milligan G.W.E. and Higgins P (2013)** “Soil nailing in Dublin Boulder Clay”, International Journal of Geotechnical and Geological Engineering (Springer), July 2013, Publisher Springer-Verlag, DOI 10.1007/s10706-013-9679-6

**37) Schroeder F.C., Merritt A.S., Menkiti C.O., Caianiello M., Potts D.M. and Sorge R. (2014)** “Assessing the effects of constructing the Colosseo/Fori Imperiali station on the Basilica di Massenzio in Rome, Italy”, 8<sup>th</sup> European Conference on Numerical Methods in Geotechnical Engineering, (NUMEG 2014) 18 – 20 June 2014, Delft, Netherlands.

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**39) Menkiti C. O. and Long M. (2015)** “Consolidation settlements in Dublin Boulder Clay”, Proceedings of the XVI European Conference on Soil Mechanics and Geotechnical Engineering, Edinburgh, 13 – 17 September 2015.

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**41) Menkiti C. O., Davis J. A., Semertzidou K., Abbireddy C.O.R., Hight D. W, Williams J. D. & Black M. (2015)** “The geology and geotechnical properties of the Thanet Sand Formation – an update from the Crossrail Project”, Proceedings of the XVI European Conference on Soil Mechanics and Geotechnical Engineering,

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**43) Lawrence, U., Menkiti, C. O. and Black, M. (2016)** “A regional scale groundwater monitoring programme for the Crossrail project: strategy and implementation”, The Crossrail Project: Infrastructure Design and Construction, Volume 2

**44) Lawrence U., Menkiti C. O. and Black M. (2017)** “Groundwater monitoring for the Construction Phase of the Crossrail project” *accepted by QJEGH 2017 (paper qjugh2016-046R2)*

**45) Lawrence , Menkiti C. O. and Black M. (2017)** “Regional scale groundwater investigations for the Crossrail project” *accepted QJEGH 2017 (paper qjugh2016-047R2)*

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**47) Faustin N, Mair, R. J., Elshafie, M., Menkiti C. O. & Black M. (2017)** “Field measurements of ground movements associated with shaft construction”, 9<sup>th</sup> Symposium on Geotechnical Aspects of Underground Constructions in Soft Ground (IS-São Paulo), São Paulo, Brazil, April 4th to 6th 2017 .

**48) Kovacevic N., Menkiti C., Long M. and Potts D. (2017)** “Finite element back-analysis of an anchored wall in Dublin Boulder Clay”, Proceedings of the XIX<sup>th</sup> ICSMGE, Seoul, 2017