

Publications by Dr D. W. Hight

HIGHT, D. W. (1974) Discussion in *BGS Symp. on Field Instrumentation in Geotechnical Engineering*, London, pp 646.

GREEN, P. A. & HIGHT, D. W. (1974) The failure of two oil-storage tanks caused by differential settlement, *BGS Conf. on Settlement of Structures*, Cambridge, pp 353-360.

HIGHT, D. W. (1974). Discussion in *BGS Conf. on Settlement of Structures*, Cambridge, pp 773.

COCKSEGE, J. E. & HIGHT, D. W. (1975) Some geotechnical aspects of road design and construction in tills. *Proc. Symp. on The Engineering Behaviour of Glacial Materials*, University of Birmingham, The Midland Soil Mechanics and Foundation Engineering Society, pp 220-229.

HIGHT, D. W. & GREEN, P. A. (1976) The performance of a piled-raft foundation for a tall building in London. *Proc. 6th European Conf. on Soil Mechanics and Foundation Engineering*, Vienna, Vol 1.2, pp 467-472.

GREEN, P. A. & HIGHT, D. W. (1976) The instrumentation of Dashwood House, London. *CIRIA Technical Note 78*, November. Conf. on Behaviour of Offshore Structures, London, Vol 1, pp 133-150.

VAUGHAN, P. R., DAVACHI, M. M., EL-GHAMRAWY, M. K., HAMZA, M. M. & HIGHT, D. W. (1976) Stability analysis of large gravity structures. *Proc. 1st Int. Conf. on Behaviour of Offshore Structures*. Trondheim, Vol 1, pp 467-487.

HIGHT, D. W. (1977) Discussion in ASCE J. of Geotechnical Engineering Division, Vol 103, GT4, 353-354, on 'Earth pressure on precast panel retaining wall' by H. M. Coyle and R. E. Bartoskewitz, 1976, Vol 102, GT5, pp 441-456.

BISHOP, A. W. & HIGHT, D. W. (1977) The value of Poisson's Ratio in saturated soils and rocks stressed under undrained conditions. *Géotechnique*, 27(3), pp 369-384.

HIGHT, D. W. & GREEN, P. A. (1978) Earthworks. Ch. 1 in *Developments in Highway Pavement Engineering - 2*, published by *Applied Science Publishers Ltd.*, Barking, Essex.

VAUGHAN, P. R., HIGHT, D. W., SODHA, V. G. & WALBANCKE, H. J. (1979) Factors controlling the stability of clay fills in Britain. *Proc. Conf. on Clay Fills, Instn. Civ. Engrs*, London, pp 205-218. (Presented in 1978).

HIGHT, D. W. & FARRAR, D. M. (1979) Discussion Session: 'Engineering properties and performance of clay fills.' *Proc. Conf. on Clay Fills. Instn. Civ. Engrs*, London pp 219-214.



HIGHT, D. W., EL-GHAMRAWY, M. K. & GENS, A. (1979) Some results from a laboratory study of a sandy clay and implications regarding its in situ behaviour. *Proc. 2nd Int. Conf. on Behaviour of Offshore Structures*, London, Vol 1, pp 133-150.

GENS, A. & HIGHT, D. W. (1979) The laboratory measurement of design parameters for a glacial till. *Proc. 7th European Conf. on Soil Mechanics and Foundation Engineering*, Brighton, Vol 2, pp 57-65.

GENS, A. & HIGHT, D. W. (1979) Reply to contribution by A. McGown. *Proc. 7th European Conf. on Soil Mechanics and Foundation Engineering*, Brighton, Vol 4, pp 133-139.

HIGHT, D. W. & GENS, A. (1979) Contribution to discussion. *Proc. 7th European Conf. on Soil Mechanics and Foundation Engineering*, Brighton, Vol 4, pp 128-129.

TAKAHASHI, M., HIGHT, D. W. & VAUGHAN, P. R. (1980) Effective stress changes observed during undrained cyclic triaxial tests on clay. *Proc. Int. Symp. on Soils under Cyclic and Transient Loading*, Swansea, Vol 1, pp 201-209. (Presented in 1979)

LUPINI, J. F., HIGHT, D. W. & CAVOUNIDIS, S. (1980) Some observations on microfabric and their role in understanding soil behaviour. *Rivista Italiana de Geotechnica*, Vol 14, No. 2, pp 112-123.

GENS, A., SYMES, M. J. & HIGHT, D. W. (1981) Discussion in ASCE J. of Geotechnical Engineering Division, Vol 107, GT5, 702-704, on 'Principal stress rotation: a missing parameter' by J. R. Arthur et al, 1980, Vol 106, GT4, pp 419-433.

HIGHT, D. W., GENS, A., DE CAMPOS, T. M. P. & TAKAHASHI, M. (1982) Factors influencing the interpretation of in situ strength tests in insensitive low plasticity clays. *Proc. 3rd Int. Conf. on Behaviour of Offshore Structures*, MIT, Cambridge, Mass., Vol 2, pp 438-450.

SYMES, M. J., HIGHT, D. W. & GENS, A. (1982) Investigating anisotropy and the effects of principal stress rotation and of the intermediate principal stress using a hollow cylinder apparatus. *IUATM Symp. on Deformation and Failure of Granular Materials*, Delft, pp 441-449.

GRACE, H. & HIGHT, D. W. (1982) Investigating the use of plastic lateritic and other locally occurring materials as bases for bituminous surfaced low volume roads. *7th Southeast Asian Geotechnical Conference*, Hong Kong, Vol 1, pp 777-786.

HIGHT, D. W. & STEVENS, M. G. H. (1982) An analysis of the CBR test in saturated clays. *Géotechnique*, 32(4), pp 315-322.

HIGHT, D. W. (1982) A simple piezometer probe for the routine measurement of pore pressure in triaxial tests on saturated soils. *Géotechnique*, 32(4). Technical Note, pp 396-401.



HIGHT, D. W. (1983) Laboratory investigations of sea bed clays. *Ph.D. Thesis*, University of London.

HIGHT, D. W., GENS, A. & SYMES, M. J. (1983) The development of a new hollow cylinder apparatus for investigating the effects of principal stress rotation in soils. *Géotechnique*, 33(4), pp 355-383.

SYMES, M. J., GENS, A. & HIGHT, D. W. (1984) Undrained anisotropy and principal stress rotation in saturated sand. *Géotechnique*, 34(1), pp 11-27.

SHIBUYA, S., HIGHT, D. W. & SYMES, M. J. (1984) Discussion in Soils and Foundations, Vol 24, No 3, on 'Sand response to cyclic rotation of principal stress directions as induced by wave loads', by K. Ishihara and I. Towhata, 23(4), pp 11-26.

HIGHT, D. W., GENS, A. & JARDINE, R. J. (1985) Discussion in *Géotechnique*, Vol 35, No. 1, 86-88. 'The reaction of clays to sampling stress relief', by W. M. Kirkpatrick and A. J. Khan, 1984, 34(1), pp 29-42.

HIGHT, D. W., GENS, A. & SYMES, M. J. (1985) Reply to discussion on 'The development of a new hollow cylinder apparatus for investigating the effects of principal stress rotation in soils.' *Géotechnique*, 35(1), pp 82-85.

GRACE, H., HIGHT, D. W. & TOLL, D. G. (1985) Some recent work on the use of locally occurring materials as bases for bituminous surfaced low volume roads. *Proc. 1st Int. Conf. Geomechanics Tropical Soils*, Brasilia '85, Vol 2, pp 295-307.

SYMES, M. J., GENS, A. & HIGHT, D. W. (1985) Reply to discussion on 'Undrained anisotropy and principal stress rotation in saturated sand'. *Géotechnique*, 35(1), pp 82-85.

HIGHT, D. W. (1985) Some developments in geotechnical aspects of highway engineering. *Institution of Highways and Transportation Symp.* - Highway Technology '85, Cambridge.

HIGHT, D. W., GENS, A. & JARDINE, R. J. (1985) Evaluation of geotechnical parameters from triaxial tests on offshore clay. *Proc. Int. Conf. on Offshore Site Investigation*. Society for Underwater Technology, London, pp 253-268.

JARDINE, R. J., POTTS, D. M., HIGHT, D. W. & BURLAND, J. B. (1985) Assessing the safety of offshore piles by displacement monitoring. *Proc. 4th Int. Conf. on Behaviour of Offshore Structures*, Delft, pp 612-622.

SYMES, M. J., SHIBUYA, S., HIGHT, D. W. & GENS, A. (1985) Liquefaction with cyclic principal stress rotation. *Proc. 11th Int. Conf. on Soil Mechanics and Foundation Engineering*, San Francisco, Vol 4, pp 1919-1922.

HIGHT, D. W. (1986) Laboratory testing: assessing BS5930. *Proc. 20th Regional Meeting of Engineering Group of Geological Society*. University of Surrey. (Presented in 1984). Engineering Geology Special Publication No. 2, pp 43-52.



SHIBUYA, S. & HIGHT, D. W. (1986) Discussion in Soils and Foundations, Vol 26, No 4, 160-162. 'Deformation behaviour of anisotropic dense sand and principal stress axes rotation', by K. Miura, S. Miura and S. Toki, 26(1), pp 36-52.

TOLL, D. G., HIGHT, D. W. & SHAW, H. F. (1987) The role of soil fabric in determining the engineering behaviour of compacted lateritic and quartzitic gravels. *Presented at 1st International Conf. on Geomorphology*, Manchester, 1985. Published in *Z. Geomorph. N.F. suppl.* - Bd 64, Berlin, pp 133-144.

SHIBUYA, S. & HIGHT, D. W. (1987) Patterns of cyclic principal stress rotation and liquefaction. *Proc. 8th Asian Regional Conf. on Soil Mechanics and Foundation Engineering*, Kyoto, Japan, Vol 1, pp 265-268.

SHIBUYA, S. & HIGHT, D. W. (1987) A bounding surface for granular materials. *Soils and Foundations*, 27(4), pp 123-136.

SHIBUYA, S. & HIGHT, D. W. (1987) Pore pressure accumulation under irregular cyclic principal stress rotation. Discussion. *Proc. 8th Asian Regional Conf. on Soil Mech. and Fdn Eng.*, Kyoto, Japan, Vol 2, pp 255.

SHIBUYA, S. & HIGHT, D. W. (1987) On the stress path in simple shear. *Géotechnique*, 37(4), pp 511-515.

ALONSO, E. E., GENS, A. & HIGHT, D. W. (1987) Special problem soils. General report. *Proc. 9th European Conf. on Soil Mechanics and Foundation Engineering*, Dublin, Vol 3, pp 1087-1146.

HUTCHINSON, J. N. & HIGHT, D. W. (1987) Strongly folded structures associated with permafrost degradation and periglacial solifluction at Lyme Regis, Dorset. *Periglacial processes and landforms in Britain and Ireland*. pp 245-246. Ed. J. Boardman. Cambridge University Press.

HIGHT, D. W., JARDINE, R. J. & GENS, A. (1987) The behaviour of soft clays. *Embankments on soft clays*. Public Works Research Centre, Athens, Ch. 2, pp 33-158.

JARDINE, R. J. & HIGHT, D. W. (1987) The behaviour and analysis of embankments on soft clay. *Embankments on soft clays*. Public Works Research Centre, Athens, Ch. 3, pp 159-244.

JARDINE, R. J. & HIGHT, D. W. (1987) Laboratory and field techniques for obtaining design parameters. *Embankments on soft clays*. Public Works Research Centre, Athens, Ch. 4, pp 245-296.

BALDI, G., HIGHT, D. W. & THOMAS, G. E. (1988) A re-evaluation of conventional triaxial test methods. *State-of-the-Art Paper for ASTM Symposium on Advanced Triaxial Testing of Soil and Rock*, Louisville, Kentucky, ASTM STP 977, pp 219-263. (Presented in 1986).



HIGHT, D. W. & BURLAND, J. B. (1988) Review of Soil Sampling and Laboratory Testing. *Science and Engineering Research Council Report*.

HIGHT, D. W., TOLL, D. G. & H. GRACE (1988) Naturally occurring gravels for road construction. *Proc. 2nd Int. Conf. on Geomechanics in Tropical Soils*, Singapore, Vol 1, pp 405-412.

HIGHT, D. W., SHIBUYA, S. & SYMES, M. J. (1988) Discussion to 6th Géotechnique Symposium in Print. 'The engineering application of direct and simple shear testing'. *Géotechnique*, 38(1), pp 139-140.

SYMES, M. J., GENS, A. & HIGHT, D. W. (1988) Drained principal stress rotation in saturated sand. *Géotechnique* 38(1), pp 59-81.

HIGHT, D. W., POTTS, D. M. & TJELTA, T. I. (1988) Finite element analyses of a deep skirted gravity base. *Proc. Int. Conf. on Behaviour of Offshore Structures*, Trondheim, Vol 1, pp 209-226.

JARDINE, R. J., HIGHT, D. W. & McINTOSH, W. (1988) Hutton tension leg platform foundations: measurement of pile group axial load-displacement relations. *Géotechnique*, 38(2), pp 219-230.

SHIBUYA, S. & HIGHT, D. W. (1989) Predictions of pore pressure under undrained cyclic principal stress rotation. *Proc. 12th Int. Conf. on Soil Mechanics and Foundation Engineering*, Rio de Janeiro, Vol 1, pp 123-126.

SHIBUYA, S. & HIGHT, D. W. (1989) Effects of initial anisotropy and intermediate principal stress on undrained behaviour of loose sand - isotropic consolidation. *Proc. 23rd Annual Meeting of Japanese Soc. Soil Mech. and Fdn Eng.* (in Japanese).

FINLAYSON, D. M. & HIGHT, D. W. (1990) The Ballymoney Lignite Development: hydrogeological and geotechnical studies. *Proc. 6th Conf. on Extractive Industry Geology*, Birmingham, editors J. W. Gaskarth and A. C. Lumsden, pp 1-20. (Presented in 1989).

GEORGIANNOU, V. N., BURLAND, J. B. & HIGHT, D. W. (1990) The undrained behaviour of clayey sands in triaxial compression and extension. *Géotechnique*, 40(3), pp 431-449.

SHIBUYA, S., SYMES, M. J. & HIGHT, D. W. (1991) End restraint on the strength of a sand in triaxial tests. *Symposium on Triaxial Testing of Soils*, Japanese Soc. SMFE, at IIS, University of Tokyo.

HIGHT, D. W. & SHIBUYA, S. (1991) Undrained stability of offshore gravity structures. *Proc. Int. Conf. on Geotechnical Engineering for Coastal Development*. Geo-coast '91, Yokohama, Japan, Vol 1, pp 561-566.

JARDINE, R. J., POTTS, D. M., ST JOHN, H. D. & HIGHT, D. W. (1991) Some practical applications of a non-linear ground model. *Proc. 10th European Conf. on Soil Mechanics and Foundation Engineering*, Florence, Vol 1, pp 223-228.



GEORGIANNOU, V. N., HIGHT, D. W. & BURLAND, J. B. (1991) Undrained behaviour of natural and model clayey sands. *Soils and Foundations*, 31(3), pp 17-29.

GEORGIANNOU, V. N., HIGHT, D. W. & BURLAND, J. B. (1991) Behaviour of clayey sands under undrained cyclic triaxial loading. *Géotechnique*, 41(3), pp 383-393.

SHIBUYA, S. & HIGHT, D. W. (1991) Liquefaction Line - a new concept for initiation of liquefaction of soil. *Proc. Int. Conf. on Geotechnical Engineering for Coastal Development. Geo-Coast '91*, Yokohama. Discussion to Session 5, Vol 2, p 1115.

GOSTELOW, T. P., HAMBLIN, R. J. O., HARRIS, D. I. & HIGHT, D. W. (1991) The influence of Late and Post Glacial slope development on the engineering geology of Wenlock Shale, near Ironbridge, Salop. *Proc. 25th Annual Conf. of Engineering Group of Geological Society*, Edinburgh. (Presented in 1989). Engineering Geology Special Publication No. 7, pp 349-360.

BRACEGIRDLE, A., VAUGHAN, P. R. & HIGHT, D. W. (1992) Displacement prediction using rate effects on residual shear strength. *Proc. 6th Int. Symp. on Landslides*, Christchurch, New Zealand, Vol 1, pp 343-347.

HIGHT, D. W., BÖESE, R., BUTCHER, A. P., CLAYTON, C. R. I. & SMITH, P. R. (1992) Disturbance of the Bothkennar clay prior to laboratory testing. *Géotechnique*, 42(2), pp 199-217.

CLAYTON, C. R. I., HIGHT, D. W. & HOPPER, R. J. (1992) Progressive destructuring of Bothkennar clay: implications for sampling and reconsolidation procedures. *Géotechnique*, 42(2), pp 219-239.

SMITH, P. R., JARDINE, R. J. & HIGHT, D. W. (1992) On the yielding of Bothkennar clay. *Géotechnique*, 42(2), pp 257-274.

LEROUEIL, S., LERAT, P., HIGHT, D. W. & POWELL, J. J. M. (1992) Hydraulic conductivity of a recent estuarine silty clay at Bothkennar. *Géotechnique*, 42(2), pp 275-288.

HIGHT, D. W., BOND, A. J. & LEGGE, J. D. (1992) Characterization of the Bothkennar clay: an overview. *Géotechnique*, 42(2), pp 303-347.

HIGHT, D. W. (1992) Characterization of the Bothkennar clay: implications for site investigation practice. *Géotechnique*, 42(2), pp 377-378.

DOUNIAS, G. T., POTTS, D. M. & HIGHT, D. W. (1992) Influence of loading conditions and sample size in the direct shear test. *Proc. 2nd Pan Hellenic Geotech. Conf.* (In Greek).

GEORGIANNOU, V. N. & HIGHT, D. W. (1992) Comparison between sand data from the direct shear box and the hollow cylinder apparatus. *Proc. 2nd Pan Hellenic Geotech. Conf.* (In Greek).



MAIR, R. J., HIGHT, D. W. & POTTS, D. M. (1992) Finite element analyses of settlements above a tunnel in soft ground. *Transport and Road Research Laboratory*. Contractor Report 265, pp 63

HIGHT, D. W., PICKLES, A. R., DE MOOR, E. K., HIGGINS, K. G., JARDINE, R. J., POTTS, D. M. & NYIRENDA, Z. M. (1993) Predicted and measured tunnel distortions associated with construction of Waterloo International Terminal. Proc. *Wroth Memorial Symp.*, Oxford, pp 317-338. (Presented in 1992).

JARDINE, R. J., GRACE, H., OYEWUMNI, O., ARMAH, E. & HIGHT, D. W. (1993) The behaviour of a laterite fill subjected to drying and wetting, including the effects of crack filling. *Conf. on Engineered Fills 93*, Newcastle upon Tyne.

HIGHT, D. W. (1993) A review of sampling effects in clays and sands. *Proc. Int. Conf. on Offshore Site Investigation and Foundation Behaviour*, Society for Underwater Technology, pp 115-146. (Presented in 1992).

HARRIS, D. I., POTTS, D. M., BRADY, K., HIGHT, D. W. & HIGGINS, K. G. (1993) Finite element analysis of anchored earth retaining walls. *Proc. International Conference on Retaining Structures*, Cambridge, pp 599-608. (Presented in 1992).

HIGHT, D. W. & JARDINE, R. J. (1993) Small-strain stiffness and strength characteristics of hard London Tertiary clays. *Proc. Int. Symp. on Hard Soils-Soft Rocks*, Athens, Vol 1, pp 533-552.

GEORGIANNOU, V. N., HIGHT, D. W. & BURLAND, J. B. (1993) The behaviour of two hard clays in direct shear. *Int. Symp. on Hard Soils-Soft Rocks*, Athens, Vol 1, pp 501-507.

GEORGIANNOU, V. N. & HIGHT, D. W. (1994) The effects of centre-line tube sampling strains on the undrained behaviour of two stiff overconsolidated clays. *ASTM Geotechnical Testing Journal*, 17, 4, pp 475-487.

HIGHT, D. W. (1994) Deformation of deep excavations in stiff soil and weak rock. *Proc. XIIIth Int. Conf. Soil Mech. Fdn Engng*, New Delhi, India, Vol 5, pp 115-116. Panel Report.

HIGHT, D. W., GEORGIANNOU, V. N. & FORD, C. J. (1994) Characterisation of clayey sands. *Proc. 7th Int. Conf. on Behaviour of Offshore Structures*, Boston, Vol. 1, pp 321-340.

HIGHT, D. W. & HIGGINS, K. G. (1994) An approach to the prediction of ground movements in engineering practice: background and application. Keynote Lecture. *Int. Symp. on Pre-Failure Deformation Characteristics of Geomaterial*, IS-Hokkaido, Vol 2, pp 909-945.

MAIR, R. J. & HIGHT, D. W. (1994) Compensation Grouting. *World Tunnelling*, November, pp 361-367.



HIGHT, D. W. & GEORGIANNOU, V. N. (1995) Effects of sampling on the undrained behaviour of clayey sands. *Géotechnique*, 45(2), pp 237-247.

DAVIS, P. D., ELDRED, P. J. L., BENNELL, J. D., HIGHT, D. W. & KING, M. S. (1996) Site investigation for seismically designed structures. *Int. Conf. on Advances in Site Investigation Practice*, London, pp 715-726.

HIGGINS, K. G., HIGHT, D. W., POTTS, D. M. & MAIR, R. J. (1996) Discussion: Comments on the use of non-linear elastic stiffness. *Proc. Int. Symp. on Geotechnical Aspects of Underground Construction in Soft Ground*, London, pp 633-634.

HIGHT, D. W. (1996) Moderator's Report to Session III: Drilling, boring, sampling and description. *Proc. Int. Conf. on Advances in Site Investigation Practice*, London, pp 337-360. (Presented in 1995).

HIGHT, D. W., LAWRENCE, D. M., FARQUHAR, G. B., MILLIGAN, G. W. E., GUE, S. S. & POTTS, D. M. (1996) Evidence for scale effects in the end bearing capacity of open-ended piles in sand. *Offshore Technology Conference*, Houston. OTC 7975, pp 181-192.

HIGHT, D. W. (1997) The volume change characteristics of compacted clays on wetting up and their influence on the performance of a motorway pavement. *Proc. Symp. on Civil Engineering and the Environment*, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, pp 401-413.

HIGHT, D. W., BENNELL, J. D., CHANA, B., DAVIS, P. D., JARDINE, R. J. & POROVIC, E. (1997) Wave velocity and stiffness measurements of the Crag and Lower Tertiaries at Sizewell. *Géotechnique*, 47(3), pp 451-474.

DAY, R. A., HIGHT, D. W. & POTTS, D. M. (1998) Finite element analysis of construction stability of Thika Dam. *Computers and Geotechnics*, 23, pp 205-219.

HIGHT, D. W. (1998) Anisotropy in soils - its measurement and practical implications. *2nd GRC Lecture*, Nanyang Technological University, Singapore. pp 27.

HIGHT, D. W., GEORGIANNOU, V. N., MARTIN, P. L. & MUNDEGAR, A. K. (1999) Flow slides in micaceous sands. *Proc. Int. Symp. on Problematic Soils, IS-Tohoku '98*, Sendai, Japan, Vol. 2, pp 945-957.

HIGHT, D. W. (2000) Sampling Effects in soft clay: an update. *Proc. of The Fourth Geotechnical Engineering Conference*, Cairo, Egypt. Invited Lecture, pp 41.

HIGHT, D. W. (2000) Soil characterisation: the importance of structure and anisotropy. *38th Rankine Lecture*. To be published in *Géotechnique*.

HIGHT, D. W., HAMZA, M. M. & EL SAYED, A. S. (2000) Engineering characterisation of the Nile Delta Clays. *Proc. Conf. IS Yokohama 2000*.



HIGHT, D. W., ELLISON, R. A. & PAGE, D. P. (2001) Engineering in the Lambeth Group. *CIRIA Funders Report/CP/83*.

HIGHT, D. W., MCMILLAN, F., JARDINE, R. J. & ALLENOU, C. P. (2002) Some characteristics of the London Clay. *Proc. Characterisation and Engineering*. National University of Singapore. Tan, T.S., Phoon, K.K., Hight, D.W. & Leroueil, S. (Eds), Balkema (publ). Vol 2, pp 851-907.



GEOTECHNICAL CONSULTING GROUP

52A Cromwell Road London SW7 5BE United Kingdom
Tel: +44 (0)20-7581-8348 Fax: +44 (0)20-7584-0157 Email: admin@gcg.co.uk

Page 9 of 9