

Publications by Dr F. C. Schroeder

CHUDLEIGH, I., HIGGINS, K. G., ST JOHN, H. D., POTTS, D. M. & SCHROEDER, F. C. (1999) Pile-tunnel interaction problems. *Proc. Tunnel Construction & Piling '99*, London. The Hemming Group Ltd., pp 172-185.

SCHROEDER, F. C., ADDENBROOKE, T. I. & POTTS, D. M. (2002) A numerical investigation into the impact of pile group loading on tunnels. *Proc. 2nd Int. Conf. On Soil Structure Interaction in Urban Civil Engineering*, Zurich, pp 205-212.

SCHROEDER, F. C., ADDENBROOKE, T. I. & POTTS, D. M. (2002) A study of common simplifications used in three dimensional finite elements analyses. *Proc. 8th Int. Conf. on Numerical Models in Geomechanics - NUMOG VIII*, Rome (eds G.N. Pande & S. Pietruszczak), Balkema, pp 265-270.

ADDENBROOKE, T. I. & SCHROEDER, F. C. (2002) Numerical analysis of the pile-enhanced raft at the Queens Elizabeth II Conference Centre in London, UK. *Proc. 9th Int. Conf. on Piling and Deep Foundations*, Nice, pp 227-234

SCHROEDER, F. C. (2002) The influence of bored piles on existing tunnels - A case study. *Ground Engng*, **35**(7), pp 32-34

SCHROEDER, F. C. (2002) The influence of bored piles on existing tunnels - A case study. *Proc. 15th Eur. Young Geotechnical Engineers Conf.*, Dublin (eds. T.L.L. Orr & M. Long), pp 247-253

SCHROEDER, F. C. (2003) The influence of bores piles on existing tunnels. *Ph.D Thesis*, University of London (Imperial College).

SCHROEDER, F. C., POTTS, D. M. & ADDENBROOKE, T. I. (2004) The influence of pile group loading on existing tunnels. *Géotechnique*, **54**, No. 6, pp 351-362

SCHROEDER, F. C., POTTS, D. M. & ADDENBROOKE, T. I. (2004) The use of slip coatings to mitigate the effects of pile loading on existing tunnels. *Proc. 9th Int. Conf. on Numerical Models in Geomechanics - NUMOG IX*, Ottawa (eds G.N. Pande & S. Pietruszczak), Balkema, pp 453-459.

SCHROEDER, F. C., DAY, R. A., POTTS, D. M. & ADDENBROOKE, T. I. (2007) A quadrilateral isoparametric shear deformable shell element for use in soil-structure interaction problems. *ASCE Int. J. Geomechanics*, **7**, No. 1, pp 44-52

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. 10th Int. Conf. on Numerical Models in Geomechanics - NUMOG X*, Rhodes (eds G.N. Pande & S. Pietruszczak), Taylor & Francis Group, pp 359-364



SCHROEDER, F. C., JARDINE, R. J., KOVACEVIC, N. & POTTS, D. M. (2007) Potential effects of well drilling operations on foundation piles in clay. *Proc. 6th Int. Conf. on Offshore Site Investigation and Geotechnics – OSIG 6*, London, pp 271-276

SCHROEDER, F. C., JARDINE, R. J., KOVACEVIC, N. & POTTS, D. M. (2008) Assessing well drilling disturbance effects on offshore foundation piles in clay. *ASCE J. of Geotechnical and Geoenvironmental engineering*, **134**, No. 9, pp 1261-1271

SCHROEDER, F. C., HIGGINS, K. G., WRIGHT, P. & POTTS, D. M. (2011) Assessment of overbridge openings on the London Underground tunnel network. *Proc. 15th Eur. Conf. on Soil Mech. and Geotech. Engng– XV ECSMGE*, Athens, Greece, pp 1733-1738

GRAMMATIKOPOULOU, A., SCHROEDER, F. C., KOVACEVIC, N., GERMANO, V. & GASPARRE, A. (2011) The influence of stiffness anisotropy on the behaviour of a stiff natural clay. *Proc. 15th Eur. Conf. on Soil Mech. and Geotech. Engng– XV ECSMGE*, Athens, Greece, pp 545-550

MERRITT, A. S., SCHROEDER, F. C., JARDINE, R. J., STUYTS, B., CATHIE, D. & CLEVERLY, W. (2012) Development of pile design methodology for an offshore wind farm in the North Sea. *7th Int. Conf. on Offshore Site Investigation and Geotechnics – OSIG 7*, London, pp 439-447.

GRAMMATIKOPOULOU, A., SCHROEDER, F.C., GASPARRE, A., KOVACEVIC, N. & GERMANO V. (2014). The influence of stiffness anisotropy on the behaviour of a stiff natural clay. *Geotechnical and Geological Engineering*, **32**(6), 1, pp 1377-1387

SCHROEDER, F. C., MERRITT, A. S., MENKITI, C. O., CAIANIELLO, M., POTTS, D. M. & SORGE, R. (2014) Assessing the effect of constructing the Colosseo/Fori Imperiali station on the Basilica di Massenzio in Rome, Italy. *Proc. 8th Eur. Conf. on Num. Meth. in Geotech. Engng – NUMGE 2014*, Delft (Eds M.A. Hicks, R.B.J. Brinkgreve & A. Rohe)

DOHERTY, P., IGOE, D., MURPHY, G., GAVIN, K., PRESTON, J., MCAVOY, C., BYRNE, B. W, MCADAM, R., BURD, H. J., HOULSBY, G. T., MARTIN, C. M., ZDRAVKOVIĆ, L., TABORDA, D. M. G., POTTS, D. M., JARDINE, R. J., SIDERI, M., SCHROEDER, F. C., MUIR WOOD, A., KALLEHAVE, D. & SKOV GRETLUND, J. (2015) Field validation of fibre Bragg grating sensors for measuring strain on driven steel piles. *Géotechnique Letters*, **5**, Issue April–June, pp 74-79

JARDINE, R. J., MERRITT, A. S. & SCHROEDER, F. C. (2015) The ICP Design Method and Application to a North Sea Offshore Wind Farm. *Int. Conf. Foundations and Equipment Expo*, ASCE Geotechnical Special Publication 256 (Eds. M. Iskander, M. Suleiman, J. Anderson & D. Laefer) pp 247-256

BYRNE, B. W, MCADAM, R., BURD, H. J., HOULSBY, G. T., MARTIN, C. M., GAVIN, K., DOHERTY, P., IGOE, D., ZDRAVKOVIĆ, L., TABORDA, D. M. G., POTTS, D.M., JARDINE, R.J., SIDERI, M., SCHROEDER, F.C., MUIR WOOD, A., KALLEHAVE, D. & SKOV GRETLUND, J. (2015) Field testing of large diameter piles



under lateral loading for offshore wind applications. *Proc. 16th Eur. Conf. on Soil Mech. and Geotech. Engng – XVI ECSMGE 2015*, Edinburgh

GRAMMATIKOPOULOU, A., SCHROEDER, F.C., KOVACEVIC, N., & POTTS, D.M. (2015). Stiffness anisotropy and its effect on the behaviour of deep excavations. *Proceedings 16th European Conference on Soil Mechanics and Foundation Engineering (XV ECSMGE)*, Edinburgh, UK.

BARBOSA, P., GEDUHN, M., JARDINE, R. J., SCHROEDER, F. C. & HORN, M. (2015) Full scale offshore verification of axial pile design in chalk. *Proc. Int. Symp. Frontiers in Offshore Geotechnics – ISFOG 2015*, Oslo (Ed. V. Meyer), pp 515-520

BYRNE, B. W, MCADAM, R., BURD, H. J., HOULSBY, G. T., MARTIN, C. M., ZDRAVKOVIĆ, L., TABORDA, D. M. G., POTTS, D. M., JARDINE, R. J., SIDERI, M., SCHROEDER, F. C., GAVIN, K., DOHERTY, P., IGOE, D., MUIR WOOD, A., KALLEHAVE, D. & SKOV GRETLUND, J. (2015) New design methods for large diameter piles under lateral loading for offshore wind applications. *Proc. Int. Symp. Frontiers in Offshore Geotechnics – ISFOG 2015*, Oslo (Ed. V. Meyer)

ZDRAVKOVIĆ, L., TABORDA, D. M. G., POTTS, D. M., JARDINE, R. J., SIDERI, M., SCHROEDER, F. C., BYRNE, B. W, MCADAM, R., BURD, H. J., HOULSBY, G. T., MARTIN, C. M., GAVIN, K., DOHERTY, P., IGOE, D., MUIR WOOD, A., KALLEHAVE, D. & SKOV GRETLUND, J. (2015) Numerical modelling of large diameter piles under lateral loading for offshore wind applications. *Proc. Int. Symp. Frontiers in Offshore Geotechnics – ISFOG 2015*, Oslo (Ed. V. Meyer)

SCHROEDER, F. C., MERRITT, A. S., ANDERSEN, K. W., MUIR WOOD, A., THILSTED, C. L. & POTTS, D. M. (2015) Predicting monopile behaviour for the Gode Wind offshore wind farm. *Proc. Int. Symp. Frontiers in Offshore Geotechnics – ISFOG 2015*, Oslo (Ed. V. Meyer)

BARBOSA, P., GEDUHN, M., JARDINE, R.J. & SCHROEDER, F.C. (2017). Large scale offshore static pile tests – practicality and benefits. *8th Int. Conf. on Offshore Site Investigation and Geotechnics – OSIG 8*, London, UK, pp 644-651

BUCKLEY, R., KONTTOE, S., JARDINE, R.J., MARON, M., SCHROEDER, F.C. & BARBOSA, P. (2017). Common pitfalls of pile driving resistance analysis - A case study of the Wikinger offshore windfarm. *8th Int. Conf. on Offshore Site Investigation and Geotechnics – OSIG 8*, London, UK pp 1246-1253

BUCKLEY, R., JARDINE, R.J., KONTTOE, S., LIU, T., USHEV, E., LEHANE, B.M., PINE, T., SCHROEDER, F.C. & BARBOSA, P. (2017). Field investigations into the axial loading response of displacement piles in chalk. *8th Int. Conf. on Offshore Site Investigation and Geotechnics – OSIG 8*, London, UK pp 1178-1185

BYRNE, B. W, MCADAM, R., BURD, H. J., HOULSBY, G. T., MARTIN, C. M., BEUCKELAERS, W. J. A. P., ZDRAVKOVIĆ, L., TABORDA, D. M. G., POTTS, D. M., JARDINE, R. J., USHEV, E. LIU, T. ABADIA GOMEZ, D., GAVIN, K., IGOE, D.,



DOHERTY, P., SKOV GRETLUND, J., PACHECO ANDRADE, M., MUIR WOOD, A., SCHROEDER, F. C., TURNER, S. & PLUMMER, M. A. L. (2017). PISA: new design methods for offshore wind turbine monopiles. *8th Int. Conf. on Offshore Site Investigation and Geotechnics – OSIG 8*, London, UK, pp 142-161

GRAMMATIKOPOULOU, A., SCHROEDER, F.C., BROSSE, A.M., ANDERSEN, K.W. & POTTS, D.M. (2017). On the use of constitutive models in numerical analyses of offshore structures. *8th Int. Conf. on Offshore Site Investigation and Geotechnics – OSIG 8*, London, pp 423-430

BUCKLEY, R., JARDINE, R.J., KONTTOE, S., PARKER, D. & SCHROEDER, F.C. (2018). Ageing and cyclic behaviour of axially loaded piles driven in chalk. *Géotechnique*, **68**, No. 2, pp 146-161

JARDINE, R.J., BUCKLEY, R., KONTTOE, S., BARBOSA, P. & SCHROEDER, F.C. (2018). Behaviour of piles driven in chalk. *Engineering in Chalk: Proc. Chalk 2018 Conf.*, London, UK, pp 33-51

BUCKLEY, R., JARDINE, R.J., KONTTOE, S., SCHROEDER, F.C. & BARBOSA, P. (2019). The design of axially loaded driven piles in chalk. *Proc. 17th Eur. Conf. on Soil Mech. and Geotech. Engng – XVII ECSMGE 2019*, Reykjavik, Iceland

BUCKLEY, R., JARDINE, R.J., KONTTOE, S., BARBOSA, P. & SCHROEDER, F.C. (2019). Full-scale observations of dynamic and static axial responses of offshore piles driven in chalk and tills. *Géotechnique*, <https://doi.org/10.1680/jgeot.19.TI.001>

