

# Professor Ian Smith BEng (Hons), PhD, FHEA

Freelance Geotechnical and Educational Consultant

Professor of Learning and Teaching

Past Dean of the School of Engineering and the Built Environment  
Edinburgh Napier University

Visiting Professor Shanghai Normal University, China



Mobile: +44 7532 658 458

Email: [prof.ian.smith@gmail.com](mailto:prof.ian.smith@gmail.com)

Web: <http://www.profiansmith.com>

---

## Keynote Addresses, courses and publications

### i) CPD courses and keynotes

- *Geotechnical Design to Eurocode 7*, Short course to Qatar Petroleum, Doha, Qatar 2014 and 2015.
- *Eurocode 7 Simply Explained*, Evening Technical Lecture, Scottish Geotechnical Group, Edinburgh 2013
- *Geotechnical Design to Eurocode 7*, Short course, Shanghai Normal University, China 2013.
- *Retaining Walls and Geotechnical Design to Eurocode 7*, Evening Technical lecture, Institution of Civil Engineers and Institution of Structural Engineers, Middlesbrough 2011.
- UK representative at 50<sup>th</sup> anniversary celebrations of CESI (French University association) by invite of the Mayor of Paris, Hotel de Ville, Paris, 2008.
- UK representative (by invitation of BSI) at *Teaching of Eurocodes* meeting, Brussels, 2008.
- *Using Eurocode 7 for Geotechnical Design*, Short course to CESI CESFA-BTP students, Paris, September 2008.
- *Geotechnical Design to Eurocode 7*, Evening Technical lecture, Institution of Civil Engineers, Edinburgh 2007.
- *An introductory course to Eurocode 7*, Short course, Ian Farmer & Associates, Newcastle, 2007.
- *Geotechnical Design to Eurocode 7*, Short course, ICE and Napier University, 2007 and 2008.
- *Civil Engineering Education in the UK*, Keynote address, Rencontres des Départements de Génie Civil, University of Bordeaux, July 2000.
- *Principles of Soil Mechanics*, Short course, Napier University, 1998.

## ii) Publications

- LEITCH K., MacIVER A. and SMITH I. (2017). *Adaptation of learning and teaching methods for the delivery of an undergraduate program in Myanmar*, Proceedings of INTED2017 International Conference, Valencia, Spain.
- SMITH I., YOUNG H. and FOTHERINGHAM J. (2016). *Easing the learner's transitional journey from college to university*, Proceedings of EDULEARN International Conference, Barcelona, Spain.
- WANG Z., ZHANG Y. and SMITH I. (2015). *The Practice of the Sino-foreign Cooperation in Running Schools of Engineering Disciplines*, Proceedings of the International Conference on Management Science and Management Innovation, Guilin, China, Atlantis Press.
- JEFFREY M., KELLY I. MUNEER T. and SMITH I. (2015). *Evaluation of solar modelling techniques through experiment on a 627 kWp photo-voltaic solar power plant at Edinburgh College—Midlothian Campus, Scotland*, Journal of Renewable and Sustainable Energy 7(3).
- MUNEER T., MILLIGAN R., SMITH I., DOYLE A., POZUELO M. and KNEZ M. (2015). *Energetic, environmental and economic performance of electric vehicles: Experimental evaluation*, Transportation Research, Part D (35) 40 – 61, Elsevier.
- MILLIGAN R., MUNEER T. and SMITH I. (2015). *A comparative range approach using the Real World Drive Cycles and the Battery Electric Vehicle*, Transportation Electrification Conference (ITEC) 2015, IEEE International, Chennai, India.
- KOLHE M., MUNEER T. ADHIKARI S. and SMITH I. (2015). *Performance evaluation of electric vehicle ventilation using directly powered photovoltaic fans*, Transportation Electrification Conference (ITEC) 2015, IEEE International, Chennai, India.
- DOYLE A., MUNEER T. and SMITH I. (2015). *A review of the thermal performance of electric vehicles*, Transportation Electrification Conference (ITEC) 2015, IEEE International, Chennai, India.
- SMITH I. (2014). *Smith's Elements of Soil Mechanics* 9<sup>th</sup> Edition, Wiley, Oxford.
- SMITH I., THENAULT L. and ZHANG Y. (2014). *Realising student potential through a truly international experience*, 44<sup>th</sup> Annual International Frontiers in Education Conference, Madrid, Spain.
- SMITH I., ZHANG Y., McDOUGALL J. and ZHANG H. (2013). *Collaborative programme in Civil Engineering between Edinburgh Napier University (UK) and Shanghai Normal University (China): Reflections after 5 years*, HEA Annual Conference, Warwick.
- SMITH I., ZHANG Y., McDOUGALL J. and ZHANG H. (2012). *Collaborative programme in Civil Engineering between Edinburgh Napier University (UK) and Shanghai Normal University (China)*, Proceedings of ICERI2012 International Conference, Madrid, Spain.
- SMITH I., LIU J., McDOUGALL J. and ZHANG H. (2012). *Collaborative programme in Civil Engineering between Edinburgh Napier University (UK) and Shanghai Normal University (China)*, Proceedings of INTED2012 International

- Conference, Valencia, Spain.
- CÁMARA NEBREDA J.M., SMITH I., SÁNCHEZ P.L. TAYLOR M.D. and REPRESA C. (2010). *International collaboration beyond the Erasmus program*, CUIEET 18, (Congreso Universitario de Innovación Educativa en las Enseñanzas Técnicas), Santander, 6–9 July.
  - SMITH I., TAYLOR M.D., de KLERK P.J. and CÁMARA NEBREDA J.M. (2010). *Internationalising group project work for civil engineering students: International Project Week 2009*, INTED2010 (International Technology, Education and Development Conference), Valencia, 8–10 March.
  - TAYLOR M.D., SMITH I., de KLERK P.J. and BIERLAAGH G.J. (2009). *Internationalisation of undergraduate civil engineering students: a collaborative European network*, 37<sup>th</sup> SEFI (European Society for Engineering Education) Conference, Rotterdam.
  - SMITH I. (2006). *Smith's Elements of Soil Mechanics* 8th Edition, Blackwell Professional, Oxford. ISBN 1405133708 2006
  - TAYLOR M.D., WAMUZIRI S.C. and SMITH I. (2003). *Automated Construction in Japan*. Proc. ICE, Civil Engineering, v.156, pp34-41, London.
  - CAMERON, G., WAMUZIRI, S.C. and SMITH, I. (2002). *A review of risk and uncertainty in geotechnical engineering* Proc. 3rd International Conference on Decision Making in Urban and Civil Engineering, London, 5-8 November,
  - CAMERON, G., WAMUZIRI, S.C., SMITH, I. AND CHAPMAN, T.J.P. (2002). *Statistical sampling schemes for integrity testing of piled foundations* Proc. United Engineering Foundation International Conference on Probabilistics in Geotechnics: Technical and Economic Risk Estimation, 129 – 136, Graz, Austria, 15-19 September.
  - CAMERON G., SMITH I. and WAMUZIRI S. C. (2001). *An account of geotechnical risk and reliability* Proc. 54th Canadian Geotechnical Conference - 2nd Joint IAH and CGS Groundwater Conference, 1434 – 1440, September 16 - 19, Calgary, Canada.
  - TAYLOR M.D., WAMUZIRI S.C. and SMITH I. (2001) *Strategic mechatronics investment: understanding the managerial options* 17th Annual Conference of the Association of Researchers in Construction Management, 333-342, Sept 5 - 7, University of Salford.
  - DELANEY F., WAMUZIRI S., and SMITH I. (2000) *Assessment of financial ratio models for predicting corporate insolvency* 2nd Int. Conference on Decision Making in Urban and Civil Engineering, 1063-1074, Lyon, France.
  - TAYLOR M.D., WAMUZIRI S.C. and SMITH I. (2000) *Analysis of risk in construction automation investment* 17th International Symposium on Automation and Robotics in Construction, 109-115, Taipei, Taiwan.
  - SMITH I. (2000). *Enseignement du Génie Civil a l'Université de Napier*, 3<sup>èmes</sup> Rencontres IUT Génie Civil, Bordeaux, France.
  - PYRAH I.C. TANAKA Y. SMITH I. and HULL D. (1999). *Non-uniform consolidation around vertical drains installed in soft ground*, 12<sup>th</sup> Euro. Conf. On Soil Mechanics and Foundation Engineering, ISSMGE, Amsterdam.
  - SMITH G.N. and SMITH I. (1998). *Elements of soil mechanics*, 7th Edition, Blackwell Science Professional, Oxford, ISBN 0-632-04126-9.
  - SMITH I. (1998). *Modelling the changes in subgrade acceptability during road construction*, *International Symposium on subdrainage in roadway pavements*

and subgrades, Asociación Técnica de Carreteras Comité Español de la A.I.P.C.R., pp419-426, Granada, Spain.

- SMITH I. (1998). *A web-based knowledge-based system to assist decision making in the selection of earth retaining walls*, 1st International Conference on New Information Technologies for Decision Making in Civil Engineering, Montreal, Canada.
- SMITH I., OLIPHANT J., WALLIS S.G. and WINTER M.G. (1998). *Forecasting soil acceptability using ground and meteorological data.*, Proc. ICE, Geotechnical Engineering, v.131, Issue 2, pp104-114, London.
- SMITH I., OLIVER A. and OLIPHANT J. (1998). *WallAid: A Knowledge-based System for the Selection of Earth Retaining Walls*, 11<sup>th</sup> International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, Castellón, Spain.
- SMITH I., OLIPHANT J. and WALLIS S.G. (1997). *Field validation of a computer model for forecasting mean weekly in situ Moisture Condition Value*, Electronic Journal of Geotechnical Engineering, Issue 2.
- SMITH I. and WINTER M.G. (1996). *The use and application of soil nailing on Scottish highway work*. TRL unpublished project report SC 11/96, Transport Research Laboratory.
- SMITH I. and SCOTT W.F. (1996). *A technique to estimate mean weekly rainfall*. Mathematical Scientist, vol. 21.
- SMITH I., WINTER M.G., OLIPHANT J., WALLIS S.G. and CROWTHER J.M. (1993). *Forecasting the long-term acceptability potential of soils for earthworking*. Proc. Int. Conf. on Engineered Fills, Newcastle, U.K., 109-118.
- SMITH I. and OLIPHANT J. (1991). *The use of a knowledge-based system for civil engineering site investigations*, Proc. 2nd Int. Conf. Applic. of A.I. to Civil and Struct. Engng, 105 - 112, Oxford, U.K