



Dr Asem Ahmed Hassan

Lecturer at College of Science, University of Diyala, Diyala, Iraq

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EDUCATION

School of Engineering and Computing Sciences, Durham University
P.hD. in Engineering geology

Durham
Oct 2010 to Sep 2014

Thesis Title: Electrical Resistivity Method for Water Content Characterisation of Unsaturated Clay Soil

Department of Geology, College of Science, University of Baghdad
M.Sc. in Geophysics

Baghdad
Mar 1990 to Jul 1992

Thesis Title: Application of Resistivity Method for Studying the Hydraulic Properties of Groundwater in Himrin Area, Iraq

Department of Geology, College of Science, University of Baghdad
B.Sc. in Geology

Baghdad
Jul 1984 to Jul 1988

MEMBERSHIPS

Iraqi Geological Society

SOFTWARE/SYSTEM SKILLS

- Operating Systems: Windows, Linux
- Software: MS Office
- ZondST2d: 2D seismotomography interpretation
- ZondST3d: 3D seismotomography interpretation
- Resistivity interpretation: RES2DMOD, RES3DMOD, RES2DINV, RES3DINV, ZondIP1d, ZondRes2d, ZondRes3d,

LANGUAGE SKILLS

Mother Tongue: Arabic

Other Language: English (Reading: Good, Writing: Very Good)

PUBLICATIONS

- Hassan, A. and Toll, D. G. (2013). Electrical resistivity tomography for characterizing cracking of soils. Geo-Congress 2013: Stability and performance of Slopes and mbankements, Meehan, C., Pradel, D., Pando, M. and Labuz, J. F. (Eds.), California, American Society of Civil Engineers ASCE, pp. 818-827.
- Toll, D. G., Hassan, A. A., King, J. M. and Asquith, J. D. (2013). New devices for water content measurement. Proceedings of the 18 th International Conference on Soil Mechanics and Geotechnical Engineering, Paris, France, pp. 1199-1202.
- Hassan, A. A. and Toll, D. G. (2014). Investigation of the directional dependence of soil resistivity in cracking clays. Unsaturated Soils: Research & Applications- Khalili, Russell & Khoshghalb (Eds.) London: Taylor & Francis Group, pp. 137-142.
- Toll, D. G. and Hassan, A. (2014). Data acquisition and control software for automated resistivity measurements, 2 nd International Conference on Information Technology in Geo-Engineering ICITG, D.G. Toll et al. (Eds.), IOS Press, pp. 170-176.
- Hassan, A. A. and Toll, D. G. (2015). Water content characteristics of mechanically compacted clay soil determined using the electrical resistivity method, the XVI ECSMGE Conference, Edinburgh (Accepted).
- Toll, D., Mendes, J., Hassan, A., Glendinning, S., Hughes, P., Chambers, J., Gunn, D., Dijkstra, T, Hughes, D. and Smethurst, J. (2015). Water content relationships for infrastructure slopes, the XVI ECSMGE Conference, Edinburgh (Accepted).
- Toll, D.G., Asquith, J.D., Fraser, A., Hassan, A.A, Liu, G.,Lourenço, S.D.N, Mendes, J, Noguchi, T., Osinski, P., Stirling, R. (2015). Tensiometer techniques for determining soil water retention curves, Unsaturated Soils:Research & Applications China GuiLin 2-4 July 2015 (Accepted)